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COLLEGES OF THE UNIVERSITY

GRADUATE SCHOOL

McMICKEN COLLEGE OF LIBERAL ARTS

COLLEGE FOR TEACHERS

COLLEGE OF ENGINEERING AND COMMERCE

COLLEGE OF MEDICINE

SCHOOL OF NURSING AND HEALTH

COLLEGE OF LAW (Cincinnati Law School)

For Announcements of the various departments, except the Colleges of Medicine and of Law, and for further information, address:

THE DIRECTOR OF ADMISSIONS

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CINCINNATI, OHIO

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THE DEAN OF THE COLLEGE OF MEDICINE

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CINCINNATI, OHIO

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CALENDAR

SESSION 1919-1920

1919

JUNE	2-16	{	Registration days for summer term of School of Nursing and Health
JUNE	9-AUG. 16		Summer pre-medical courses
JUNE	16-21		Entrance examinations
JUNE	16-AUG. 16		Summer medical courses
JUNE	30-JULY 6		Registration days for summer extension courses
JUNE	30-AUG. 8		Summer extension courses
SEPT.	8-13	{	Entrance examinations for all departments except College of Law
SEPT.	17, WEDNESDAY		Meeting of Student Advisory Committee
SEPT.	18, THURSDAY		Entrance examinations begin for College of Law
SEPT.	18, THURSDAY	{	Registration days for first semester of College of Liberal Arts, College for Teachers, evening academic courses, regular engineers, and evening commerce students
SEPT.	19, FRIDAY		
SEPT.	20, SATURDAY		
SEPT.	20, SATURDAY		Registration day for special students
		{	Registration day for cooperative engineers, Sec. I, cooperative commerce students, Sec. I, and for College of Law
SEPT.	22, MONDAY		First semester begins for all departments except Colleges of Medicine and Law
SEPT.	22-27		Registration days for Graduate School
SEPT.	23, TUESDAY		First semester begins for College of Law
		{	Registration days for College of Medicine
SEPT.	25-27		Examinations in College of Medicine for removal of conditions
SEPT.	29-OCT. 10		Registration days for winter extension courses
SEPT.	29, MONDAY	{	Summer term ends for School of Nursing and Health
			Winter extension courses begin
SEPT.	30, TUESDAY		First semester begins for College of Medicine
		{	Registration days for fall term of School of Nursing and Health
OCT.	1-10		
OCT.	4, SATURDAY		Registration for first semester closes at 12:30 p.m.
		{	Registration day for first semester for cooperative engineers, Sec. II, and cooperative commerce students, Sec. II
OCT.	6, MONDAY		
Nov.	1, SATURDAY	{	Mid-term for cooperative engineers, Sec. I, and cooperative commerce students, Sec. I

NOV. 15, SATURDAY	{ Mid-term reports due in Registrar's office Mid-term for cooperative engineers, Sec. II, and cooperative commerce students, Sec. II
NOV. 27-29, INC.	Thanksgiving recess

CHRISTMAS RECESS

MONDAY, DECEMBER 22-SATURDAY, JANUARY 3, INCLUSIVE

1920

JAN. 5, MONDAY	Classes resumed
JAN. 12-17	Entrance examinations
JAN. 24, SATURDAY	{ First semester ends for cooperative engineers, Sec. I, and cooperative commerce students, Sec. I
JAN. 26-FEB. 5	First semester examinations
JAN. 28, MONDAY	Second semester begins for College of Law
JAN. 31, SATURDAY	{ Registration day for second semester of School of Nursing and Health
FEB. 6, FRIDAY	{ Registration day for College of Liberal Arts, College for Teachers, evening academic courses, regular engineers, regular commerce students, and evening commerce students
FEB. 7, SATURDAY	{ First semester ends for cooperative engineers, Sec. II, cooperative commerce students, Sec. II, and for College of Medicine No classes
FEB. 9, MONDAY	{ Registration day for second semester of coopera- tive engineers, Sec. I, cooperative commerce stu- dents, Sec. I, and for College of Medicine Second semester begins
FEB. 9-11	{ Registration days for second semester of Graduate School
FEB. 10, TUESDAY	Second semester begins for College of Medicine
FEB. 21, SATURDAY	{ Registration for second semester closes at 12:30 p.m.
FEB. 22, SUNDAY	Washington's Birthday
FEB. 23, MONDAY	{ A holiday Registration day for second semester for coopera- tive engineers, Sec. II, and cooperative commerce students, Sec. II
MAR. 20, SATURDAY	{ Mid-term for cooperative engineers, Sec. I, and cooperative commerce students, Sec. I
MAR. 25-27, INC.	Spring recess for College of Law

EASTER RECESS

COLLEGE OF MEDICINE, MARCH 28-APRIL 3, INCLUSIVE

COLLEGE OF LIBERAL ARTS

COLLEGE FOR TEACHERS

GRADUATE SCHOOL

} APRIL 1-3, INCLUSIVE

APRIL 3, SATURDAY	{ Mid-term reports due in Registrar's office Mid-term for cooperative engineers, Sec. II, and cooperative commerce students, Sec. II
APRIL 30, FRIDAY	Oratorical contest for Jones Prizes
MAY 7, FRIDAY	Winter extension courses end
MAY 12, WEDNESDAY	Final examinations begin for College of Law
MAY 15, SATURDAY	{ Second semester ends for cooperative engineers, Sec. I, and cooperative commerce students, Sec. I
MAY 29, SATURDAY	{ Second semester ends for cooperative engineers, Sec. II, and cooperative commerce students, Sec. II
MAY 30, SUNDAY	Memorial Day
MAY 31, MONDAY	A holiday
MAY 31-JUNE 5	{ Vacation for cooperative engineers, Sec. I, and cooperative commerce students, Sec. I
MAY 31-JUNE 14	{ Registration for summer term of School of Nursing and Health
JUNE 1, TUESDAY	Second semester examinations begin
JUNE 7-AUG. 7	{ Summer school for cooperative engineers, Sec. I, and cooperative commerce students, Sec. I
JUNE 7-AUG. 14	Summer pre-medical courses
JUNE 11, FRIDAY	Second semester ends
JUNE 12, SATURDAY	University Commencement Day
JUNE 14-AUG. 14	Summer school for cooperative engineers, Sec. II, and cooperative commerce students, Sec. II

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OTTO J. RENNER	" 1926
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ROBERT W. HILTON	" 1928
EMIL POLLAK	" 1929

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Office, Van Wormer Library Bldg.
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Office, 7 McMicken Hall

*Deceased

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College of Medicine: Drs. Oliver, Fischer

School of Nursing and Health: Miss Logan

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College of Liberal Arts: Professors Lowrie, Van Wye

College of Law: Judge Pugh, Professor Arnold

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OF

THE GRADUATE SCHOOL, THE COLLEGES OF LIBERAL ARTS AND ENGINEERING AND COMMERCE, AND THE COLLEGE FOR TEACHERS

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The Dean is a member *ex officio* of all committees.

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628 Elm St.
- *CHARLES GOOSMAN, PH.B., M.D....Instructor in Radio-Therapeutics
- BENJAMIN W. GAINES, M.D.....Instructor in Gynecology
- CHARLES P. KENNEDY, M.D.....Instructor in Medicine
3329 Gilbert Ave.
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- JOHN D. SPELMAN, M.D.....Instructor in Medicine
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- *MOSES SCHOLTZ, M.D.....Instructor in Dermatology and Syphilology
- J. EDWARD PIRRUNG, M.D., F.A.C.S.....Instructor in Surgery
1218 Walnut St.
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- *JOSEPH S. PODESTA, M.D.....Instructor in Gynecology
- JOHN E. STEMLER, M.D.....Instructor in Gynecology
103 W. McMillan St.
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1403 Union Central Bldg.
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214 W. Seventh St.
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Cincinnati Tuberculosis Sanatorium
- CHARLES C. JONES, M.D.....Instructor in Otology
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- JOHN A. CALDWELL, B.S., M.D., F.A.C.S.....Instructor in Surgery
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- REED SHANK, M.D.....Assistant in Surgery
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- HARRY LOUIS CLAASSEN, M.D.....Assistant in Dermatology
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NOTE: C. G. H.=Cincinnati General Hospital

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 *CHRISTIAN R. HOLMES, M.D., F.A.C.S.... Dean of the College of Medicine
 JOHN C. OLIVER, M.D., F.A.C.S.... Acting Dean of the College of Medicine

The names of the teaching staff are arranged by departments.

NURSING AND HEALTH

LAURA R. LOGAN, A.B., B.S., R.N.... Professor and Director of School of
 Nursing and Health
 BLANCHE PFEFFERKORN, B.S., R.N.... Assistant Professor of Nursing and
 Health
 PHOEBE M. KANDEL, R.N..... Instructor in Nursing and Health
 PARTHENIA K. FOSTER, B.S., R.N..... Instructor in Nursing and Health
 ABBIE ROBERTS, B.S., R.N..... Instructor in Public Health Nursing

ANATOMY

HENRY McELDERRY KNOWER, PH.D..... Francis Brunning Professor
 EDWARD F. MALONE, A.B., M.D..... Professor of Histology
 JOHN C. DONALDSON, PH.B., M.D..... Assistant Professor of Anatomy

PHYSIOLOGY

MARTIN H. FISCHER, M.D..... Joseph Eichberg Professor
 EDMUND M. BAEHR, M.D..... Associate Professor

BIO-CHEMISTRY

ALBERT PRESCOTT MATHEWS, S.B., PH.D..... Professor
 C. A. MILLS, A.B..... Instructor

PATHOLOGY, BACTERIOLOGY AND HYGIENE

†PAUL G. WOOLLEY, B.S., M.D..... Mary M. Emery Professor
 WILLIAM BUCHANAN WHERRY, A.B., M.D.... Professor of Bacteriology and
 Hygiene

PHARMACOLOGY

DENNIS EMERSON JACKSON, PH.D., M.D..... Professor

MEDICINE AND MEDICAL NURSING

ROGER S. MORRIS, A.B., M.D..... Frederick Forchheimer Professor
 HIRAM B. WEISS, A.B., M.D..... Instructor
 RAPHAEL ISAACS, A.M., M.D..... Instructor
 VIRGINIA C. GANO, R.N.... Instructor in Nursing and Night Supervisor

*Deceased

†Resigned

- VALERIE M. WEIL, A.B., R.N... Instructor in Medical Nursing and Supervisor of Medical Wards
- *RUTH K. SNOWDEN, R.N... Instructor in Medical Nursing and Supervisor of Medical Wards
- DRUSILLA SCHENCK, R.N.... Instructor in Nursing Contagious Diseases and Supervisor of Contagious Wards

PEDIATRICS

- B. K. RACHFORD, M.D..... Professor
- ALBERT J. BELL, A.B., M.D..... Assistant Professor
- EDWARD A. WAGNER, M.D..... Assistant Professor

NEUROLOGY AND PSYCHIATRY AND PSYCHOLOGY

- HERMAN HENRY HOPPE, A.M., M.D..... Professor of Neurology
- DAVID I. WOLFSTEIN, M.D..... Professor of Psychiatry
- ROBERT INGRAM, M.D..... Assistant Professor of Psychiatry
- CHARLES E. KIELY, A.B., M.D..... Instructor in Neurology
- ERNEST L. TALBERT, PH.D..... Assistant Professor of Psychology
- NELL P. ISAMINGER, R.N..... Instructor in Psychiatric and Neurologic Nursing and Supervisor of the Psychopathic Wards

DERMATOLOGY

- ELMORE B. TAUBER, B.S., M.D..... Acting Professor

OTOLOGY

- †CHRISTIAN R. HOLMES, M.D., F.A.C.S..... Professor
- WALTER E. MURPHY, M.D..... Professor

LARYNGOLOGY AND RHINOLOGY

- SAMUEL IGLAUER, B.S., M.D..... Professor
- M. F. MCCARTHY, A.B., M.D..... Instructor

OPHTHALMOLOGY

- ROBERT SATTLER, M.D., F.A.C.S..... Professor
- VICTOR RAY, M.D..... Professor of Clinical Ophthalmology

SURGERY AND SURGICAL NURSING

- JOSEPH RANSOHOFF, M.D., F.R.C.S. (Eng.), F.A.C.S.... Professor of Surgery
- JOHN CHADWICK OLIVER, M.D., F.A.C.S.... Professor of Clinical Surgery
- DUDLEY WHITE PALMER, B.S., M.D., F.A.C.S... Associate Professor of Clinical Surgery
- *LURA LA VERNE BRIGHTON, R.N... Instructor in Surgical Nursing and Supervisor of Surgical Wards

*Resigned

†Deceased

EDITH NORTHRUP, R.N.....Instructor in Surgical Nursing and
Supervisor of Surgical Wards

*ETHEL M. MCKIBBON, R.N...Instructor in Surgical Technique for Nurses
and Supervisor of Operating Pavilion

BETTIE A. HANNA, R.N.....Instructor in Surgical Technique
for Nurses and Supervisor of Operating Pavilion

GYNECOLOGY

SIGMAR STARK, M.D., F.A.C.S.....Professor

CHARLES LYBRAND BONIFIELD, M.D.....Professor

GENITO-URINARY SURGERY

E. OTIS SMITH, M.D., F.A.C.S.....Professor

ORTHOPEDIC SURGERY

ALBERT HENRY FREIBERG, M.D., LL.D., F.A.C.S.....Professor

EMILY G. FESSENDEN..Instructor in Mechano-Therapy and Supervisor
of Orthopedic Gymnasium

OBSTETRICS AND OBSTETRICAL NURSING

WILLIAM GILLESPIE, M.D.....Professor

WILLIAM D. PORTER, A.M., M.D.....Clinical Professor

MAGNUS A. TATE, M.D., F.A.C.S...Associate Professor of Clinical Obstetrics

*LILIAN STIRLING, R.N...Clinical Instructor in Obstetrical Nursing and
Supervisor of Obstetrical Wards

FOODS AND NUTRITION

JANE CAPE, B.S.....Instructor

SOCIAL SCIENCE

*LAURENCE HUNTINGTON VAN MATRE.....Instructor

FRED^W ALLEN CONRAD, A.M.....Instructor

STAFF LECTURERS

A. C. BACHMEYER, M.D...Superintendent, the Cincinnati General Hospital

ELIZABETH^Y COCKE, R.N...Superintendent, the Visiting Nurse Association

MARY L. EMRIE, R.N...Social Service Worker, Cincinnati Tuberculosis
Sanatorium

LOUISE KUCK, R.N...Supervisor of Tuberculosis Nursing, Board of Health,
City of Cincinnati

*Resigned

BLANCHE MOORBRINK, R.N... Supervisor of Nurses, Cincinnati Tuberculosis Sanatorium

WILLIAM H. PETERS, M.D..... Health Officer, City of Cincinnati

ADA S. STOKES, R.N..... Supervisor, College of Medicine Dispensary

*MARY ALICE SWOPE..... Dietitian, Contagious Department

HARRIET B. GEGNER.... Director of Social Service Handicraft Department

OTHER TEACHING ASSISTANTS

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REBECCA ANDERSON, R.N..... Head Nurse, Psychopathic Ward

CARRIE M. BEATTY, R.N..... Assistant Night Supervisor

MINNIE AUGUSTA BOHLMAN, R.N..... Head Nurse, Medical Ward

ALLIE EMILY DANIEL..... Head Nurse, Contagious Ward

BLANCHE AUGUSTA GIMPLE, R.N..... Head Nurse, Contagious Ward

MARY ELIZABETH HOFF, R.N..... Head Nurse, Surgical Ward

EMMA A. HOFMANN, R.N. Head Nurse, Venereal Ward

OPHELIA LAWRENCE HOFMANN, R.N.... Head Nurse, Gynecological and Genito-Urinary Ward

JESSIE BLANCHE HUSSEY, R.N... Assistant Supervisor, Operating Pavilion

ALICE WINIFRED MELDRON, R.N..... Head Nurse, Pediatric Ward

EDITH M. POTTER, R.N..... Head Nurse, Contagious Ward

DORIS LORAIN ROBINSON, R.N..... Supervisor, Admitting Pavilion

JEANETTE HARIETTA ROSELIUS, R.N..... Head Nurse, Obstetrical Ward

MARY LOUISE SCHMUEKLE, R.N... Head Nurse, Eye, Ear, Nose, and Throat Ward

GLADYS SELLEW, A.B..... Head Nurse, Pediatric Ward

LUELLE CAROLINE SMITH, R.N..... Head Nurse, Pediatric Ward

HELEN STEELE, R.N..... Head Nurse, Contagious Ward

ORZA TALBOT, R.N..... Head Nurse, War Risk Insurance Ward

MINNIE VANDENBARK, R.N..... Head Nurse, Contagious Ward

THERESE VON HEGENDORF, R.N.... Night Supervisor, Contagious Pavilion

LELIA C. WEEDIN, B.S., R.N..... Head Nurse, Medical Ward

NANNIE F. YORK, R.N..... Head Nurse, Surgical Ward

*Resigned

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- ANGELO DOHERTY Assistant Superintendent of the Cincinnati
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- MAE WILSON Registrar of the College Dispensary

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ELLIOTT SMITH, PH.D.....	Second Astronomer and Instructor Observatory Grounds, Mt. Lookout

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ADDRESSES AND LECTURES, 1918-1919

PUBLIC ADDRESSES

Professor de Martonne, University of Paris: "France and Her People." November 26, 1918.

Miss Mary Van Kleeck, Woman's Division, Department of Labor, Washington: "Women and Labor." December 2, 1918.

Douglas C. McMurtrie, head of the Red Cross Institute, New York: "Fitting Cripples for Self-Support." December 20, 1918.

Miss Helen Frazer: "The Woman's Land Army of America." January 8, 1919.

Mme. Angelini: "Italy Today." January 23, 1919.

Professor Isaac J. Cox: "The Educational Problems of Mexico;" "Traveling Through a Troubled Land;" "Yucatan—Patriarchal and Socialistic." February 15, 18, 24, 1919.

The following representatives of industries in and near Cincinnati gave a series of lectures on industrial chemistry under the auspices of the Department of Chemistry: Mr. A. B. Davis, chemical director, The Ault & Wiborg Company; Judge Louis M. Hosea; Messrs. Archibald Campbell, second vice-president, The Globe Soap Company; M. B. Graff, chemical supervisor of Hydrogenation, The Procter & Gamble Company; C. P. Long, chief chemist, The Globe Soap Company; A. O. Snoddy, chemist, The Procter & Gamble Company; Leo Forst, chief chemist, Cincinnati Division U. S. Food and Drug Laboratories; F. C. Broeman, consulting chemist; John M. Harney, chemist, The Frank Tea & Spice Company; George K. Elliott, chief chemist and metallurgist, The Lunkenheimer Valve Company; James A. Aupperle, chief chemist, The American Rolling Mills Company; F. O. Clements, director of Research, The Dayton Metal Products Company; Harry Yockey, chemist, The National Lead Company; Harry R. Wolf, chemist, Dayton Engineering Laboratories; E. M. Meyer, chief chemist, City Board of Health, and Gustav Koenig, chief chemist, Remmers Soap Company.

The University of Cincinnati Branch of the Young Men's Christian Association presented the following speakers:

The Reverend Jesse Halsey, American Intervention Officer in Russia: "Russia and Bolshevism." February 6, 1919.

John P. Frey, secretary of Labor Commission to the Allies: "Democracy and Industry." February 13, 1919.

Professor Isaac J. Cox: "Mexican Problems in the World Peace." February 20, 1919.

Rabbi David Philipson, Rockdale Temple: "Palestine and Its Problems." February 27, 1919.

Professor Frederick C. Hicks: "Some Features of Our War Labor Policy." March 6, 1919.

Dr. George Eisler, secretary of the American House: "The Balkan Situation." March 13, 1919.

Dr. T. K. Hu, secretary of the Y. M. C. A., Hankow, China: "China at the Peace Conference." March 21, 1919.

THE ALLIANCE FRANÇAISE

The Alliance Française, a national association, officially recognized by a decree of the President of the French Republic, October 23, 1886, aims to promote the study of the French language and literature in foreign lands.

The Cincinnati branch of the Alliance Française, in cooperation with the University of Cincinnati, arranges for a number of lectures to be given during the year by some of the most eminent French writers of the day. To these lectures students of the University of Cincinnati are admitted by season tickets, free of charge.

M. André Fribourg, professor of History and Geography, Collège Ste. Barbe, Lycée Louis le grand: "Rheims;" "The Americanization of France;" "The Youth of France and the War." January, 1919.

AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS

Mr. Earl Flath: "Automatic Fuse Testing." February 28, 1919.

Mr. Charles Shryock, chairman, Student Local: "The Oscillograph." March 13, 1919.

Mr. Frank W. Huss, electrician sergeant, Coast Artillery: "Application of Electricity in the Coast Artillery." March 27, 1919.

Mr. William J. Morgan: "The Use of Electricity in Heat Treating Plants." April 10, 1919.

Mr. J. P. Hobart: "Some Practical Features of the Liberty Motor." April 17, 1919.

Lieut. Vernon Wiegand: "The Wireless Telephone on the Airplanes." April 24, 1919.

Mr. A. A. Van Pelt: "Shell Forging at Armco." May 8, 1919.

AMERICAN SOCIETY OF MECHANICAL
ENGINEERS

Major Bert Baldwin: "Engineering Problems of the War." February 13, 1919.

Captain R. C. Bunge: "Americans on the Firing Line." February 13, 1919.

E. F. Du Brul, engineer: "South American Business Methods and Opportunities." February 27, 1919.

Mr. A. J. Baker, engineering salesman, Cincinnati Milling Machine Company: "Working Conditions in Shops." March 13, 1919.

Mr. E. T. Vinnedge: "Engineering Problems of the World War in France." April 17, 1919.

BLUE HYDRA

Professor William B. Wherry: "Influenza." February 3, 1919.

Mr. R. Van Atta, Hamilton County Agricultural Agent: "Hamilton County Agricultural Work." March 3, 1919.

Mr. Kurt C. Barth, of Chicago: "Wood Preservation." April 30, 1919.

Professor John Uri Lloyd: "Plants Used as Drugs." May 5, 1919.

BRAUNE CIVIL ENGINEERING SOCIETY

Mr. Glenn Allen: "Flood Control." February 13, 1919.

Mr. E. L. Winslow: "Some Problems on Big Four Relocation." February 20, 1919.

Mr. R. E. Stewart: "Topographic Problems on Miami Conservancy District." March 20, 1919.

Mr. Ernest Newbold: "Big Four Relocation." March 6, 1919.

Mr. Samuel Bailey: "Highway Construction." January 16, 1919.

Lieut. R. A. Anderegg: "Engineers on the Front Lines." February 27, 1919.

Lieut. F. C. Todd: "Importance of Engineering in Artillery Work." March 13, 1919.

Dean Herman Schneider: "Relation of Engineering to Commerce." May 10, 1919.

Major Bert Baldwin: "Over There." May 10, 1919.

Professor H. M. Benedict: "College Spirit." May 10, 1919.

Mr. J. Nelson Caldwell: "Reminiscences of an Engineer." May 10, 1919.

Mr. George D. Halsey: "Advantages from Membership in the Braune Civil Engineering Club." May 10, 1919.

CLASSICAL CLUB

Miss Dorothea Spinney, Stratford-on-Avon: "Interpretation of the 'Medea' of Euripides." January 15, 1919.

Professor John M. Burnam: "Some Ancient Picture Books." January 22, 1919.

Professor Frank W. Chandler: "The Classical Conception of Poetry." January 29, 1919.

Professor William T. Semple: "The Great War—Roman and Modern." February 12, 1919.

Professor William J. Battle: "Greece at the Peace Table." February 19, 1919.

HISTORY CLUB

Professor Isaac J. Cox: "Mexico." January 21, 1919.

Professor Reginald C. McGrane: "Diplomatic Background of the Great War." October, 1919.

ROPES LECTURES

Dr. Irving Babbitt, professor of French at Harvard University: "The Terms Classic and Romantic." March 3, 1919.

Dr. Raymond M. Alden, professor of English, Leland Stanford University: "The General Problems of Tragedy;" "Personality in Tragedy;" "Critical Realism." April 14, 15, 16, 1919.

The Reverend John Kelman, University of Edinburg: "Carlyle, Arnold, and Browning in the Light of the War." May 26, 1919.

CONFERENCE OF SECONDARY SCHOOL PRINCIPALS AND TEACHERS

Dr. Henry Suzzalo, president of the University of Washington; Professor A. L. Hall-Quest; Mrs. Mary S. Watts; Professor Herman Schneider, dean of the College of Engineering; Miss M. L. Cumbach, Springfield, Ohio; Dr. J. M. Burnam, professor of Latin; Miss Bernice Evans, Lebanon, Ohio; Mr. Harry L. Senger, Woodward High School; Mrs. Ally C. Quinn, Covington High School; Mr. G. A. Aerts, the Ault & Wiborg Company; Miss Grace Buchwalter, Bloom School; Mr. Merton

J. Hubert, professor of Romance Languages; Mr. J. M. Hamilton, Woodward High School; Dr. Guy A. Tawney, professor of Philosophy; Mr. J. W. Ritchey, Hughes High School; Miss Anna H. Raitt, Bloom School; Mr. Maximillian Braam, Hughes High School; Dr. H. E. Newman, Walnut Hills High School; Mr. George Baumann, Hughes High School; Miss Helen Swineford, Hughes High School; Mr. Edwin C. Van Winkle, Pleasant Ridge High School; Mrs. Maude Gregory Adams; Miss Grace G. Hood, professor of Home Economics Education; Miss Charlotte Ullrich, director of Household Arts, Cincinnati Public Schools.

GENERAL STATEMENT

FOUNDATION AND GROWTH

For an adequate conception of the University of Cincinnati, its growth, its organization, its component parts, its aims and aspirations, it is necessary to go back about a century and trace the checkered but honorable histories of several institutions. In 1814 a number of Cincinnati gentlemen organized the Cincinnati-Lancaster Seminary. Before the building was entirely finished, although the school had been in operation for some years, three prominent citizens secured legislation from the General Assembly authorizing the incorporation of "The President, Trustees, and Faculty of the Cincinnati College," by which the scope of the seminary was broadened. This act was passed in January, 1819, its foremost advocates being General William Little, Jacob Burnet, and Dr. Daniel Drake. The new college, having been merged with the old Cincinnati-Lancaster Seminary, was opened shortly afterwards and continued in operation until 1825.

Later on, in 1834-5, other subscriptions were obtained, and the college was reorganized. Besides the regular academic courses departments of medicine and of law were established and with the latter the Cincinnati Law School, founded the year previous, 1833, by John C. Wright, Timothy Walker, and Edward King, was combined. All departments, except that of law, which still survives, passed out of existence within a few years.

In the same year that the Cincinnati College was organized, the Medical College of Ohio received its charter, the prime mover of its inception being Dr. Daniel Drake. The new institution opened its doors for the reception of students in 1820, its first faculty consisting of Dr. Drake, Dr. Jesse Smith, and Dr. Benjamin Bohrer. The oldest institution for medical education west of the Allegheny Mountains, with a long period of honorable and useful service, it became, in the year 1896, the College of Medicine of the University of Cincinnati.

The interesting course of the Cincinnati Observatory must be followed for thirty years before the time is reached when a new institution—a municipal university—had its birth. Largely through the efforts of Ormsby MacKnight Mitchel, educator, astronomer, soldier, who was at that time professor of mathematics and astronomy of the literary department of the Cincinnati College, the Cincinnati Astronomical Society was formed in 1842, three hundred shares of stock were sold, and an eleven-inch equatorial, the largest in the country at that time, was purchased. The original site on Mt. Adams was donated by Nicholas Longworth, and in spite of financial depression and many other difficulties, Professor Mitchel had the satisfaction of seeing the corner-stone of the Observatory building laid on November 9, 1843, by Ex-President John Quincy Adams.

Professor Mitchel was director from the time of the completion of the building until 1860. In 1868 Professor Cleveland Abbe was appointed director. He secured the cooperation of numerous observers in various parts of the country, inaugurated a system of daily weather reports, and attempted the prediction of meteorological disturbances. After a few months this service passed into the hands of the Western Union Telegraph Company, but the work of Professor Abbe had had its effect, arousing popular interest which led speedily to the formation of the United States Weather Bureau.

In 1872, a short time after the formal incorporation of the University of Cincinnati, the Astronomical Society transferred its property to the new institution, on the condition that the city agree to sustain the Observatory. At the same time a new site on Mt. Lookout was donated and a new building erected. Since that time astronomical work of a high order has been carried on continuously.

Passing now to the history of the University and of its absorption of the above institutions:

On his death, in 1858, Charles McMicken gave to the city of Cincinnati most of his estate, valued at about \$1,000,000, for the purpose of establishing and maintaining "two colleges for the education of white boys and girls." Nearly half of the property devised by Mr. McMicken, situated in the state of Louisiana, was entirely lost, in 1860, by a decision of the Supreme Court of that state, annulling that part of the devise. As the rest of the property, that in Cincinnati and vicinity, did not yield an income sufficient to provide for the establishment of the two colleges, the revenue derived from the estate was for ten years applied to its improvement. For some years after 1869 the trustees gave certain financial assistance to a School of Design, transferred in 1884 to the Cincinnati Museum Association. But in 1870, by a state act, "to enable cities of the first class to aid and promote education," Cincinnati proceeded to the incorporation of the University of Cincinnati. In 1872 additional legislation enabled the city to issue bonds to provide a suitable building, which was not ready for use until the fall of 1875. In the meantime the Academic Department, now the College of Liberal Arts, was established, its courses being given for a while by the teachers of Woodward High School.

The income from the original fund having proved inadequate, the city, in 1893, undertook to aid in the support of the University through public taxation, allowing three tenths of a mill, and, in 1906, five tenths.

The College of Engineering, organized under that name in 1900 and becoming a distinct department with a dean at its head in 1904, developed out of a chair of civil engineering in the College of Liberal Arts. When, in 1887, the Clinical and Pathological School of the Cincinnati City Hospital was organized, it was affiliated with the University, being designated the Medical Department. In 1896 the Medical College of Ohio became the College of Medicine of the University, since which date the Clinical and

Pathological School has been known as the Department of Clinical Medicine. The College for Teachers was organized in cooperation with the Board of Education in 1905. In affiliation with it is the Cincinnati Kindergarten Training School. In 1906 the Graduate School was established as a distinct college, with a dean as its executive officer. In 1909 the Miami Medical College became an integral part of the University and the new College of Medicine of the University of Cincinnati was established. In 1916, under the new City Charter, the Medical College and Cincinnati General Hospital were fused into a single organization which is administered by the Board of Directors of the University. In 1912 the regular evening classes of the College of Liberal Arts were established. In the same year the College of Commerce was organized, and in 1919 was made a part of the College of Engineering, which is henceforth to be known as the College of Engineering and Commerce. In 1912 also the Bureau of City Tests was established in the Engineering College in connection with the Engineer's office of the Department of Public Service of the city. In 1914 the School of Household Arts was established and became in 1919 the Department of Home Economics of the College for Teachers. In 1916 the new Department of Hygiene and Physical Education was organized. In the same year the Cincinnati Hospital Training School for Nurses became the School of Nursing and Health, a department in the College of Medicine. In 1918 the Cincinnati Law School became the College of Law of the University. In 1918, also, under the Smith-Hughes Act, there was established in the College for Teachers the Department of Vocational Education.

BUILDINGS AND SITE

From 1875 to 1895 the Academic Department occupied the building erected on the grounds of the McMicken homestead, as required by the will of the founder. This site proving altogether unsatisfactory, application was made to the courts for permission to remove to a more suitable location in Burnet Woods Park. The desired permission having been granted, steps were immediately taken for the construction of a main building, called McMicken Hall, which was completed in two years. This building stands on high ground at the southern end of the park, forty-three acres having been set apart as a site for the University. During the years 1895 and 1896 the north wing, known as Hanna Hall, was built with funds amounting to about \$70,000, provided by Henry Hanna. The south wing, called Cunningham Hall, was built in 1898 and 1899 by Briggs S. Cunningham, at a cost of \$60,000.

The Van Wormer Library, costing about \$60,000, the gift of Asa Van Wormer, was built during the years 1898 to 1900.

The Observatory, built in 1873 with \$10,000 given by John Kilgour, stands on Mt. Lookout, several miles distant from the other University buildings. A smaller structure, the O. M. Mitchel Building, was added in 1904 to house the old telescope. In 1912 this building, was enlarged by the addition of a lecture room, a library, and another small dome.

From 1896 to 1917 the building on the McMicken homestead site was used by the College of Medicine, and the Dispensary occupied a building on the lower part of the grounds. On May 25, 1915, Mrs. Mary M. Emery made an offer of \$230,000 for the construction of a new medical college building, on condition that an additional \$250,000 be raised for equipment, etc. To meet the conditions of Mrs. Emery's gift, donations were received to the amount of \$255,000, making a total of \$505,000. The building was completed in September, 1917, being located on twelve acres of ground on Eden Avenue, given by the city. Quarters for the Dispensary have been provided in the Cincinnati General Hospital.

A gymnasium, power plant, and engineering building, provided by the city at a cost of \$550,000, were completed in December, 1911.

A chemical laboratory, a woman's building, and a stadium, also provided by the city at a cost of \$550,000, were completed in December, 1916.

For many years the College of Law was located in the Mercantile Library Building on Walnut Street between Fourth and Fifth, on the site of the old Lancaster Seminary, of which it is the direct and sole successor. Since 1902 the college has been located at 21 West Ninth Street, near Race Street, but has recently been sold as a preliminary step to the erection of a College of Law upon the University grounds in Burnet Woods.

EQUIPMENT

CARSON FIELD

Carson Field, adjacent to the Gymnasium, contains a baseball diamond, a football gridiron, and a quarter-mile cinder track, with a one hundred and twenty yard straight-away extending in front of the new grand stand. A large part of the work in athletics is done out of doors during good weather, and such games as football, baseball, basket ball, and track athletics are a part of the students' training. Lessons in boxing, wrestling, and fencing are also given to students interested in these forms of exercise. For indoor work, the gymnasium, with its cork-covered running track, white-tiled swimming pool, and spacious locker rooms, affords excellent facilities.

MUSEUMS

The Museum of Natural History consists of a number of geological and biological collections. Among others are specimens donated from the Zoological Garden from time to time; the Balke natural history collections, chiefly of mammals, birds, and insects; the Huntington collection of shells; the Fillmore and Schneider collection of Philippine relics; the Fechheimer collection of igneous rocks; the Wetherby collection of rocks

and minerals; and the McCord collection of fossils and minerals. The Department of Geology and Geography has also on exhibition a part of its working collections of maps, models, minerals, rocks, and fossils. Other valuable collections are the U. P. James collection of fossils and minerals, the Carl Holmes collection of Greenland birds, permanently loaned by the late Dr. and Mrs. C. R. Holmes; donations by Mr. E. Meyer and Dr. Arch I. Carson; and several group mounts of large animals.

In 1918 Mr. James Albert Green presented to the Geological Museum a large collection of minerals made by the late Charles H. Pennypacker, of Westchester, Pennsylvania. The collection embraces from 4,000 to 5,000 specimens, representing from 150 to 200 species.

In the same year the University acquired by bequest from the late George W. Harper, of Cincinnati, his extensive collection of fossils. The size and quality of this collection give it rank among the leading scientific collections made in the Ohio Valley.

In 1912 the heirs of the late Samuel A. Miller loaned to the University his large collection of fossils (more than 8,000 labels), gathered from various parts of America and Europe. The collection is for sale and is open at all times for inspection by prospective buyers. The University has also on loan and similarly exhibited the H. M. Norris collection of Indian implements.

THE UNIVERSITY LIBRARY

The Van Wormer Library is open from 8 A.M. to 9:40 P.M., on Monday to Friday; Saturday, 8 A.M. to 5 P.M.

The University Library, in this building, contains about 85,000 volumes and 10,000 pamphlets.

The Library contains some valuable special collections:

The Robert Clarke Library, comprising 6,761 volumes, given by William A. Procter.

The Enoch T. Carson Shakespeare Library, 1,420 volumes, also given by William A. Procter.

The Bruehl Library, of about 2,000 volumes, on the history, archaeology, and ethnology of Mexico and Central America.

The Wilson Library, of English, French, and Italian literature, 810 volumes, given by Judge Moses F. Wilson.

The Merrill Library of engineering works, 876 volumes, 478 pamphlets, and 185 maps, charts, and photo-lithographs, given by Mrs. William E. Merrill.

The Whittaker Medical Library, the bequest of Dr. James T. Whittaker to the Medical College of Ohio, 1,547 volumes and 538 pamphlets.

The Thoms Library, part of the bequest of the late Matthew Thoms.

The Brown Philological Library, consisting of the English philological library of the late Professor Edward Miles Brown. Contains 318 bound volumes, 51 unbound volumes, and 83 pamphlets.

The Charlotte Hildebrand Memorial Library of French and German books, 1,500 volumes.

The Library of the American Association for the Advancement of Science, placed under the charge of the University of Cincinnati, consists at present of 6,000 volumes, for the most part periodical publications of foreign scientific societies. The Association Library has been increased by a collection of books on geodesy and related subjects from the estate of Professor J. H. Gore.

The Historical and Philosophical Society of Ohio comprises over 30,000 volumes and 69,000 pamphlets, pertaining chiefly to the history of the Ohio Valley, and contains valuable collections of original letters and other manuscripts.

The total number of books, including duplicates, in the Van Wormer Library Building is about 125,000 volumes and 79,000 pamphlets.

To these collections must be added the libraries of departments of the University, situated in other parts of the city. These are:

The Library of the Observatory	4,000	volumes
The Library of the College of Medicine	6,500	volumes
The Library of the Municipal Reference Bureau.....	600	volumes
and 6,000 pamphlets		
The Library of the College of Law.....	14,000	volumes
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Total	25,100	volumes
and 6,000 pamphlets		

The libraries of the University, excluding those of the Historical and Philosophical Society of Ohio and the American Association for the Advancement of Science, contain 96,000 volumes and 15,000 pamphlets.

The Public Library, the Mercantile Library, and the Lloyd Library and Museum, consisting chiefly of scientific works, as well as the libraries of the Lane Theological Seminary, the Hebrew Union College, the Art Museum, and the College of Music, are open to University students.

BENEFACTIONS

THE THOMS BEQUEST

In 1890 Matthew Thoms left to the University property valued at \$130,000. In appreciation of the gift the William Thoms Professorship of Civil Engineering was established.

THE SINTON BEQUEST

In 1899 David Sinton left to the University \$100,000. In appreciation of the gift, the Sinton Professorship of Economics and Commerce was established.

THE ROPES BEQUEST

In 1907 Mary P. and Eliza O. Ropes, of Salem, Massachusetts, gave \$100,000 for the endowment of a chair of comparative literature, as a memorial to their father, Nathaniel Ropes, for many years a citizen of Cincinnati.

THE JOSEPH EICHBERG FUND

In 1910 the friends of the late Dr. Joseph Eichberg presented to the University of Cincinnati the sum of \$45,000 to be used towards the establishment of the Joseph Eichberg Chair of Physiology. In the same year Messrs. Harry M. Levy and Jacob G. Schmidlapp, of Cincinnati, pledged \$1,500 a year for six years to supplement the income from this fund.

THE BRUNNING BEQUEST

In 1911 Dr. Francis Brunning, of Cincinnati, bequeathed to the Endowment Fund Association of the University of Cincinnati, for the College of Medicine, almost his entire estate, amounting to about \$100,000. The income has been used to support in part the Francis Brunning Professorship of Anatomy.

THE SACKETT BEQUEST

In 1912 Mrs. Floris A. Sackett made a bequest to the University, which amounts to the income on \$30,000. This money has been set aside to endow the "Floris Armstrong Sackett Chair of Domestic Arts."

THE GIBSON BEQUEST

In 1912 Mrs. Frances W. Gibson, of Cincinnati, bequeathed to the University of Cincinnati, for the College of Medicine, the sum of \$31,500, for the Endowment Fund.

THE JULIE FRIES LEVY ENDOWMENT

In 1912 Mr. Harry M. Levy, of Cincinnati, in honor of his mother, presented to the University of Cincinnati, for the Endowment Fund of the College of Medicine, the sum of \$50,000, to be known as "The Julie Fries Levy Endowment."

THE EMERY GIFT

In 1913 Mrs. Mary M. Emery, of Cincinnati, presented to the Endowment Fund Association of the University of Cincinnati the sum of \$125,000. It was afterwards decided to use this money to endow the Mary M. Emery Chair of Pathology in the College of Medicine.

THE MOOS BEQUEST

In 1913 Mrs. Henrietta Moos, of Cincinnati, bequeathed \$25,000 to the Endowment Fund Association of the University of Cincinnati, for the College of Medicine, to establish the Henry M. Moos Fund in the Department of Medicine.

THE MARY M. EMERY GIFT

On May 25, 1915, Mrs. Mary M. Emery made an offer of \$250,000 for the construction of a new medical college building, on condition that an additional \$250,000 be raised for equipment, etc.

By July 1, 1915, the following donations had been secured to meet the conditions of Mrs. Emery's gift:

Mr. Harry M. Levy, \$50,000; Mr. and Mrs. Charles P. Taft, \$50,000; Mrs. Charles Fleischmann, \$50,000; Mr. William Cooper Procter, \$50,000; Miss Anna Louise Taft, \$15,000; Mrs. Julien Benjamin, \$10,000; Miss Mary Hanna, \$10,000; Mrs. C. R. Holmes, \$10,000; Mr. James P. Orr, \$5,000; Mrs. Emilie Heine, \$5,000; a total of \$255,000.

The medical college building was ready for occupancy October 1, 1917.

THE FREDERICK FORCHHEIMER CHAIR OF MEDICINE

As a memorial to Dr. Frederick Forchheimer, distinguished physician and professor of medicine in this college, an endowment has been planned for the chair of medicine.

The following contributors made possible the inauguration of this chair in October, 1915, by subscribing \$10,000 a year for three years:

Mr. and Mrs. Bellamy Storer, \$3,000; Miss Eugenia Goshorn, \$3,000; Mr. and Mrs. Charles P. Taft, \$3,000; Mr. Charles Boldt, \$1,500; Mrs. Lucien Wulsin, \$1,500; Mrs. Howard Hinkle, \$1,500; Mr. Albert H. Chatfield, \$1,500; Mr. Charles Krippendorf, \$1,500; Mr. Julius Fleischmann, \$1,500; Mr. Fred Geier, \$1,500; Mr. William H. Alms, \$1,000; Mrs. Henrietta Billing, \$1,000; Mr. Harry M. Levy, \$900; Dr. Joseph Ransohoff, \$750; Mrs. M. H. Perin, \$750; Mrs. W. P. Anderson, \$750; Mr. L. A. Ault, \$750; Mrs. Jeannette A. Davis, \$600; Mr. and Mrs. William Mosler, \$600; Major Frank J. Jones, \$600; Mr. Charles E. Wilson, \$500; Mr. George W. Harris, \$300; Dr. Sigmar Stark, \$300; Mr. Howard E. Wurlitzer, \$300; Mrs. Rudolph Wurlitzer, Sr., \$300; Mr. Rudolph Balke, \$300; Mrs. William M. Greene, \$300; Miss Anne Roelker, \$300; Mr. L. M. Prince, \$300; Mr. James W. Bullock, \$300; Mr. Sidney Pritz, \$300; a total of \$30,700.

THE BALDWIN BEQUEST

In 1916 Mr. Francis Howard Baldwin made a bequest to the University, amounting to more than \$700,000.

THE FANNY NAST GAMBLE FUND

In April, 1919, Dr. A. J. Nast and Mr. Charles L. Doughty, executors of the estate of Francesca N. Gamble, gave \$50,000 to the College of Medicine, to be known as the Fanny Nast Gamble Fund. The income from \$25,000 is to be used for research by the Chair of Bacteriology, and the income from the balance for such purposes as are deemed best by the medical faculty.

THE TAFT GIFT

In 1919 Mr. and Mrs. Charles P. Taft gave \$50,000 for the maintenance of scientific equipment for the Medical College.

THE CARNEGIE CORPORATION GIFT

In 1920 the Carnegie Corporation gave \$250,000 for the establishment of a chair in the College of Medicine in memory of Dr. Christian R. Holmes.

THE FLEISCHMANN-HOLMES GIFT

In 1920 Mrs. Henrietta Fleischmann contributed towards the Holmes Memorial Fund \$100,000, the interest of which is to be used for the maintenance of a department of preventive medicine.

Mrs. Bettie Fleischmann Holmes gave \$3,000 to equip the laboratory of the department.

THE BETTIE FLEISCHMANN HOLMES GIFT

In 1920 Mrs. Bettie Fleischmann Holmes gave \$250,000 to endow a deanship in the College of Medicine. The dean's chair shall be known as "The Christian R. Holmes Chair."

OTHER GIFTS

In 1911 Miss Lena Dandridge established a surgical library in the College of Medicine in memory of her brother, Dr. N. P. Dandridge, professor of Surgery. For equipment and maintenance to date this library has received \$1,765; for endowment \$10,000.

In 1915 Mrs. Georgine Holmes Thomas and Mrs. Andrew Hickenlooper, both of Cincinnati, each gave to the Endowment Fund Association of the University of Cincinnati, towards the endowment of the College of Medicine, the sum of \$1,000.

In 1915 Mr. Richard P. Ernst gave \$2,000 for equipment in the Department of Medicine.

In 1915 Mrs. Joseph A. Magnus gave \$1,000 for equipment in the Department of Medicine.

In 1915-16 Mrs. C. R. Holmes contributed \$2,000 towards the equipment and maintenance of the students' lunch room in the College of Medicine.

In 1915 the following amounts were contributed for special equipment in the School of Nursing and Health (now a department in the College of Medicine): Mrs. Charles Fleischmann, \$1,000; Mrs. C. R. Holmes, \$1,500; Mr. Julius Fleischmann, \$1,000; Mr. Harry L. Laws, \$250; Mrs. Frederick Forchheimer, \$250.

In 1915 Mrs. Anna L. Schram gave \$1,000 for the nurses' library, and agreed to contribute \$100 annually for books. In 1916, 1917, 1918, 1919, and 1920, Mrs. Schram gave an additional \$100 for the nurses' library.

In 1916 Mrs. Anna L. Schram gave \$1,500 for the Tuberculosis Sanatorium, and \$200 for the nurses' library there.

In 1916 Mrs. Elizabeth Drake Morrill Edwards presented to the Medical Department a bronze tablet in memory of her great grandfather, Dr. Daniel Drake. In addition Mrs. Edwards and Mr. Charles Drake McGuffey presented the entire collection of original manuscripts, letters, diplomas, etc., of Dr. Daniel Drake.

In 1916 Mr. E. L. McLain gave \$500 for laboratory equipment in the College of Medicine.

In 1917 Mrs. Helen B. Shields gave \$10,000 for the purpose of installing and equipping the Percy Shields Laboratory for Pathology and Bacteriology at the Cincinnati Tuberculosis Sanatorium, in memory of her husband, Dr. Percy Shields.

In 1917 Mr. Charles Boldt gave \$20,000 for installing and equipping the Out-Patient Dispensary at the Cincinnati General Hospital. Mr. Boldt will also contribute \$1,000 a year, for a period of five years, towards its maintenance.

Mr. Walter Friedlander has since 1917 given \$1,000 a year for the Out-Patient Dispensary.

The following contributions have been made since January, 1918, towards the Medical College building and equipment:

Mrs. Morris M. White	}	(in memory of Mr. Morris M. White and to be known as "The Morris M. White Fund") \$10,000
Mrs. Helen White Eustis		
Mrs. John Gates		
Mrs. Theodore Cramp		
Mrs. Clarence Price		
Mrs. Charles Fleischmann.....		5,000
Miss M. Mary Hanna.....		5,000
Mrs. Bettie Fleischmann Holmes.....		5,000
William H. Alms.....		5,000
B. W. Campbell.....		5,000
Mrs. Briggs Cunningham (in memory of Briggs S. Cunningham)...		5,000
Bayard Kilgour.....		5,000
Henry C. Yeiser.....		5,000
Emil Pollak, Julian Pollak, Maurice Pollak.....		5,000
Christian R. Holmes.....		5,000
Charles Boldt.....		2,500
Lawrence Maxwell.....		2,500
Harry L. Laws.....		2,500
R. K. Le Blond.....		2,500
E. W. Edwards.....		2,500
Mr. and Mrs. D. B. Meacham, in memory of their son Robert Douglass Meacham, contributed all movable equipment in the Medical College auditorium.....		1,366
Charles P. Taft.....		1,000
James P. Orr.....		1,000
Frank J. Jones and Charles D. Jones.....		1,000
William M. Greene.....		1,000

George W. Harris	\$1,000
Clifford B. Wright	1,000
D. K. Weiskopf	1,000
Thomas W. Allen	1,000
George D. Puchta	1,000
L. A. Ault	1,000
J. G. Schmidlapp	1,000
Jesse R. Clark	1,000
Eli Winkler	1,000
Mrs. W. W. Seely	1,000
Edward Senior	1,000
Max Schmidt	1,000
Joseph Rawson	1,000
W. S. Rowe	1,000
Charles A. Bosworth	1,000
The American Laundry Machinery Company	1,000
Mrs. A. G. Brunsman	1,000
E. C. Goshorn	1,000
Murray Shipley	1,000
The John Shillito Company, by Mr. Stewart Shillito, president	1,000
The Estate of Bradford Shinkle	1,000
The Estate of M. J. Perin	1,000
Mrs. A. Howard Hinkle	1,000
William Mosler	500
Charles Lewis	500
Frank B. Wiborg	200
Rudolph Balke	100

Mrs. Isaac A. Wyler established in 1918 the Jesse S. Wyler Scholarship in the College of Medicine in memory of her son who died of influenza while acting as contract surgeon in the Students' Army Training Corps.

In 1918 Mr. William C. Fiedelvey left to the University his estate, valued at \$20,000.

Mr. and Mrs. Charles Livingood have presented to the College of Medicine the collection of instruments used by Mrs. Livingood's father, the late Dr. Nathaniel Foster.

The College of Medicine has been honored by having presented to it the portraits by distinguished artists of the following deceased members of the faculty:

Joseph Aub	presented by Mrs. Helen Aub
A. G. Comegys	" the Directors of the University
P. S. Connor	" the medical profession
Frederick Forchheimer	" Mr. and Mrs. William Mosler
Herman M. Moos	" Mrs. Henrietta Moos
W. W. Seely	" Mrs. W. W. Seely
John H. Tate	" Dr. Magnus Tate
James T. Whittaker	" Mrs. James T. Whittaker

Mrs. Emery places at the disposal of the Department of Pediatrics, which has charge also of the patients of the Ohio Maternity Society, a sum of money which is used for distributing certified milk, and in paying two visiting nurses to carry on follow-up work in the patients' homes.

In 1919, Mrs. M. L. Heidingsfeld supplied stacks for housing an addition to the library, costing \$500. Mrs. Mary M. Emery supplied the college with flags, costing \$100. Mr. Charles W. Breneman donated a series of stereopticon curtains, costing \$100.

In 1919, the friends of Dr. Peter T. Kilgour created a fund amounting to \$650, to establish the Kilgour Prize.

Dr. Elmore B. Tauber presented to the College of Medicine 125 moulds covering the common and rarer forms of skin disease, and has promised to add to the collection additional ones until the range of subjects is complete.

The Phoenix Club and Mr. Julius F. Holmes have each donated a billiard table for the students' recreation room in the College of Medicine.

In 1919, Dr. Oscar Berghausen presented to the Dandridge Library seventy-two volumes on immunity.

By the terms of the will of Dr. C. R. Holmes the College of Medicine in 1920 received \$25,000 for the establishment and maintenance of a medical journal.

Dr. Holmes also left to the College of Medicine his medical library. Mrs. Holmes will give \$250 a year during her lifetime and will provide a permanent fund of \$5,000 for the future maintenance and expansion of the library.

In 1920 Mr. and Mrs. Charles P. Taft gave 1,000 shares of the capital stock of the Cincinnati Gas and Electric Company. The income is to be applied to such payments for instruction in the College of Liberal Arts as the Board of Directors may determine. An unknown donor gave \$10,000, the income to be used for the same purpose.

In 1920 the Ferro Concrete Construction Company gave ten shares of the preferred stock of the William Koehl Company towards the endowment of the College of Engineering.

In the same year Mrs. Emma Harrison Neave gave \$2,500, with the stipulation that the income be expended by the Board of Directors for the general purposes of the University.

The College of Law has a substantial endowment including, among others, the funds of the Rufus King Chair of Constitutional Law created by the will of Rufus King, a professor in the school from 1875 to 1891, and of the G. H. Wald Professorship of the Law of Contracts created by Mrs. Betty Wald and Richard H. Wald in memory of Gustavus Henry Wald, a member of the faculty of the school from 1896 to 1903.

ENDOWMENT FUND ASSOCIATION

The Endowment Fund Association of the University of Cincinnati was incorporated on April 21, 1905, by a number of prominent citizens of the municipality. The purpose of the corporation, as stated in its code of regulations, is "to secure property, including money, or the income from the same, for the use of the University of Cincinnati, and for that purpose to solicit, collect, accept, hold, manage, invest, or pay over such property, money, or income, whether such property, money, or income arises by way of gift, devise, or purchase, for the benefit of said University." Its affairs are managed by a board of trustees consisting of nine members.

PUBLICATIONS

The official publications of the University are as follows:

THE UNIVERSITY RECORD.—This publication is issued at intervals during the year and comprises the President's Annual Report, bibliographies of the various faculties, the Commencement number, and the Announcements of the Graduate School, College of Liberal Arts, Evening Academic Courses, College for Teachers, College of Engineering and Commerce, College of Medicine, School of Nursing and Health, and College of Law.

THE UNIVERSITY STUDIES.—This publication is issued in parts and contains the results of research by members of the faculty or by other persons connected with the University of Cincinnati. A price list of these publications may be obtained by addressing the office of the Press.

Student publications of the University are as follows:

THE CINCINNATIAN.—The Cincinnati is the University annual, and is edited and published by the members of the Junior class.

THE UNIVERSITY WEEKLY NEWS.—This paper is the official student bulletin, and is issued every week during the University year.

THE SCRIBE.—This publication appears four times a year and is literary in tone. The students of the University are the contributors.

STUDENT ORGANIZATIONS

In addition to the Greek letter societies, the following student organizations met regularly throughout the academic year 1919-1920:

Academic Club, composed of the men of the College of Liberal Arts; Athletic Council; Bird Club; Blue Hydra, a permanent organization devoted to the study of biology; Braune Civils; Chemists' Club; Commerce Club; Co-op Club; Debating Association; Drama Circle; French Club; Girls' Glee Club; History Club; Home Economics Club; Literary

Society; Menorah Society (a branch of the Intercollegiate Menorah Association); Men's Glee Club; Men's Inter-Fraternity Association; Premedic Club; Student Council; Student Section of the American Society of Mechanical Engineers; Student Section of the American Institute of Electrical Engineers; Student Volunteers; Women's Athletic Council; Women's Glee Club; Women's Pan-Hellenic Association; a chapter of the Y. W. C. A.; a chapter of the Y. M. C. A.; Mercuriales Society (physical education organization); Calesidoc (College of Law organization); Spanish Club; Law School Club; and the Woman's League, open to women of the faculty as well as to women students.

Most matters of student discipline at the University are controlled by the Student Council, composed of the four class presidents and other representatives chosen by the classes.

The Student Tribunal for Self-Government exists in the College of Engineering and Commerce. It consists of five members—three Seniors and two Juniors.

The Three Arts Club is an organization for young women students of music, painting, and the drama, or public speaking. Saturday meetings and other occasions afford delightful opportunities artistically and socially. The annual dues are \$1. Application for membership should be made to Mrs. E. M. Galbraith, 3758 Clifton Avenue. Out-of-town members may live at the Three Arts Club House, 2334 Ashland Avenue, for from \$7 to \$10 a week.

ALUMNAL ASSOCIATIONS

ALUMNAL COUNCIL

1920

Dr. Emerson North (College of Medicine)
 Dr. Frank Lamb (College of Medicine)
 Judge Robert Pugh (College of Law)
 Charles B. Wilby (College of Law)
 Alice Donnelly (College of Liberal Arts)
 Dr. Arch I. Carson (College of Liberal Arts)
 Elsie Metz (College of Liberal Arts)
 Judge Smith Hickenlooper, Chairman (College of Liberal Arts)
 Fred K. Hoehler (Executive Secretary)

*COLLEGE ALUMNI ASSOCIATION

RAYMOND RATLIFF, '94..... President
 ARTHUR SPIEGEL, '04..... First Vice-President
 CHARLES W. BROEMAN, '11..... Second Vice-President

* This association is composed of graduates of the Colleges of Liberal Arts and Engineering and Commerce and the College for Teachers.

HOWARD L. BEVIS, '08	Secretary-Treasurer
SMITH HICKENLOOPER, '01	}
ARCHIBALD I. CARSON, M.D., '87	
ARCHIBALD I. CARSON, M.D., '87	} Representatives of Athletic Com- mittee
ROBERT HEUCK, '13	
FRANK RASCHIG, '00	

*ASSOCIATION OF ALUMNAE

MISS ALICE DONNELLY, '90	President
MISS SYLVIA EWAN, '96	Vice-President
MISS HELEN BURGOYNE, '17	Secretary
MISS ELIZABETH CREAGHEAD, '18	Treasurer
MRS. THOMSON DE SERISY, '04	}
MISS ELSIE METZ, '02	

COLLEGE OF MEDICINE

This association includes in its membership all the graduates of the Medical College of Ohio, the Miami Medical College, the Laura Memorial College, and the Cincinnati College of Medicine and Surgery. The annual dues of \$1.50 may be paid to the treasurer, who will give in return a card of membership.

J. EDWARD PIRRUNG, M.D.	President
CHARLES GOOSMANN, M.D.	First Vice-President
WILLIAM H. PETERS, M.D.	Second Vice-President
J. D. WAKEFIELD, M.D.	Third Vice-President
WILLIAM E. FOSTER, M.D.	Fourth Vice-President
RUSSELL H. PADEN, M.D.	Secretary
CHARLES H. STAMMEL, JR., M.D.	Treasurer
C. E. SHINKLE, M.D. ...	}
S. E. ALLEN, M.D.	
M. H. URNER, M.D.	

COLLEGE OF LAW

This association is composed of graduates of the Cincinnati Law School. The present officers are:

CHARLES WILBY	President
OTIS FISK	Secretary-Treasurer

*This association is composed of graduates of the Colleges of Liberal Arts and Engineering and Commerce and the College for Teachers.

FEES AND EXPENSES

All tuition and fees required from students must be paid in advance and as a condition of registration. Registration shall not be considered as completed until all such payments have been made, and a "late registration fee" shall be added to fees not paid on the days set apart for registration. If fees are not paid promptly, the deans are authorized to exclude students from attendance upon their classes.

In all the colleges except the College of Medicine, if tuition fees are not paid during registration days, but are paid within the two weeks succeeding the last registration day, a penalty of \$7.50 is imposed; if not paid then, but if paid within the following two weeks, the penalty is \$12.50; if not paid within four weeks after the last registration day, further attendance upon classes is refused.

Fees are subject to change as conditions necessitate; such changes take effect at once and apply to students already enrolled, unless otherwise specified.

Tuition and fees are not returnable except when withdrawal from the University is caused by sickness or causes entirely beyond the control of the student. Students withdrawing under discipline forfeit all rights to a return of any portion of their fees.

The full amount of tuition and fees shall be returned to students who fail of admission to the University after same have been paid. In other cases refunders, when allowed, shall be in the following proportions:

During 1st and 2d weeks	80%
During 3d and 4th weeks	60%
During 5th and 6th weeks	40%
During 7th and 8th weeks	20%

After the eighth week no refunder shall be allowed, but a credit memorandum may be issued for the total amount of the tuition or fees.

When the right of a student to register as a citizen of Cincinnati is in doubt, he must raise the question at once with the Registrar, and obtain the blank provided for the purpose. He shall then present his case in writing to the proper authorities, who will pass upon the matter. No person can gain residence in Cincinnati by enrolling as a student in the University.

If a student misrepresents himself as a citizen of Cincinnati at the time of registration, he shall be assessed the sum of \$10 in addition to the tuition for that semester.

TUITION FEES

GRADUATE SCHOOL

Tuition in the Graduate School is free to residents; non-residents are charged at the rate of \$5 a credit hour a semester.

COLLEGE OF LIBERAL ARTS AND COLLEGE FOR TEACHERS

Regular Students

Tuition in the College of Liberal Arts and the College for Teachers is free to regular students who are citizens of Cincinnati.

All regular non-resident students in the College of Liberal Arts and in the College for Teachers are charged a tuition fee of \$100 a year payable in installments of \$50 a semester.

Special and Irregular Students

All special students and irregular students (i.e., students who have satisfied the entrance requirements, but take less than twelve hours a week by special permission) in the College of Liberal Arts and in the College for Teachers, who are citizens of Cincinnati, are charged tuition at the rate of \$3 a credit hour a semester, in advance. A credit hour is one hour's work a week carried through a semester or half year. For instance, tuition for a three-hour course would amount to \$9 a semester, or \$18 a year. If tuition is not paid within one week after the last registration day, an additional fee of \$1 is charged; if not paid within four weeks after the last registration day, attendance upon classes is refused.

All non-resident special and irregular students in the College of Liberal Arts and in the College for Teachers are charged tuition at the rate of \$5 a credit hour a semester, in advance, i. e., tuition for a three-hour course amounts to \$15 a semester or \$30 a year.

Evening Academic Courses

Tuition in the Evening Academic Courses is free (a) to all citizens of Cincinnati; (b) to all teachers* who, although non-residents, are engaged in teaching in the public schools of the city. All other resident and non-resident teachers are charged tuition at the rate of \$5 a course a year. Non-residents, other than teachers, are charged tuition at the rate of \$5 a credit hour a semester. A credit hour is one hour's work a week carried through a semester or half year. Laboratory fees are charged for courses in the laboratory sciences.

Summer Pre-Medical Courses

Tuition in the Summer Courses is free to citizens of Cincinnati. Non-residents and students registered in the professional schools pay a tuition fee of \$25. The laboratory fee in chemistry for each course is \$10. A deposit of \$10 is required in chemistry to cover the cost of the breakage of apparatus; whatever is left, after deductions for breakage have been made, is returned. The laboratory fee in physics or zoology is \$15. There are no other expenses connected with the courses.

Extension Courses

A fee of \$5 is charged for admission to *each* winter Extension Course; \$7.50 for *each* summer Extension Course.

*Librarians or assistants in the Public Library are given the same rates as teachers in the public schools.

*Courses for Teachers**

Teachers enrolled in the Graduate School, the College of Liberal Arts, or the College for Teachers pay the regular library fee of \$5 a year. Tuition in these departments is free (a) to all teachers in public schools who are citizens of the city; (b) to all teachers who, although non-residents, are engaged in teaching in the public schools of the city. All other resident and non-resident teachers are charged tuition at the rate of \$5 a course a year, payable in advance.

Course for Teachers of Art

The fees in the special course for teachers of art are as follows: matriculation fee, \$5; tuition fee for non-residents, \$18 (for one year's instruction in psychology and the history of education); laboratory fee, \$25 a year; tuition fee, payable at the Art Academy, \$25 a year.

COLLEGE OF ENGINEERING AND COMMERCE

Regular Students

All regular (four-year) students in the College of Engineering and Commerce who are citizens of Cincinnati are charged a tuition fee of \$75 a year payable in installments of \$37.50 a semester.

All regular (four-year) non-resident students in the College of Engineering and Commerce are charged a tuition fee of \$100 a year, payable in installments of \$50 a semester.

All five-year cooperative students in the College of Engineering and Commerce who are citizens of Cincinnati are charged a tuition fee of \$60 a year, payable in installments of \$30 a semester.

All five-year non-resident cooperative students in the College of Engineering and Commerce are charged a tuition fee of \$100 a year payable in installments of \$50 a semester.

Special and Irregular Students

All special and irregular students (i. e., students who have satisfied the entrance requirements, but take less than twelve hours a week by special permission), in the College of Engineering and Commerce who are citizens of Cincinnati, are charged tuition at the rate of \$3 a credit hour a semester, in advance. A credit hour is one hour's work a week carried through a semester or half year. For example, tuition for a three-hour course would amount to \$9 a semester, or \$18 a year. If tuition is not paid within one week after the last registration day, an additional fee of \$1 is charged; if not paid within four weeks after the last registration day, attendance upon classes is refused.

All non-resident special and irregular students in the College of Engineering and Commerce are charged tuition at the rate of \$5 a credit

*Librarians or assistants in the Public Library are given the same rates as teachers in the public schools.

hour a semester, in advance, i. e., tuition for a three-hour course would amount to \$15 a semester or \$30 a year.

Evening Commerce Courses

Students in the Evening Commerce Courses who are residents of Cincinnati are charged \$12 a year for each two-hour course, \$50 a year for five courses; non-residents are charged \$20 a year for each two-hour course, \$75 a year for five courses.

COLLEGE OF MEDICINE

Regular Students

Students who enrolled between September, 1918, and September, 1920, will pay \$200 a year until graduation or withdrawal.

Students who enrolled previously to September, 1918, will pay \$150 a year until graduation or withdrawal.

If the tuition is not paid during registration days, but within the following three days, \$1 additional must be paid, and for each day of delinquency thereafter \$.50 is added; if it is not paid within four weeks after the last registration day, further attendance upon classes is refused.

Special, Irregular, Graduate Students

All special students, irregular students (i.e., students who have satisfied the entrance requirements, but who take, by special permission, less than twelve hours of work a week), and graduate students are charged tuition at the rate of \$7.50 a credit hour a semester, in advance. A credit hour is one hour of didactic or three hours of laboratory or clinical work a week carried through a semester or half year. If the tuition is not paid during registration days, but within the following three days, \$1 additional must be paid, and for each day of delinquency thereafter \$.50 is added; if it is not paid within four weeks after the last registration day, further attendance upon classes is refused.

**Summer Pre-Medical Courses*

SCHOOL OF NURSING AND HEALTH

Combined Liberal Arts and Nursing Course

For fees covering the two pre-nursing years in the College of Liberal Arts of the five-year combined liberal arts and nursing course, see page 66.

*See page 67.

During these two years the students are required to pay the same fees as other resident or non-resident students in the College of Liberal Arts.

Owing to the cooperative nature of the three professional years of the five-year combined course, the hospital furnishes tuition and maintenance for the three professional years.

Public Health Nursing Course

Maintenance is not provided for the graduate nurse registered in the public nursing course, and a tuition charge of \$50 is made for the eight months.

Special Students

Special students not rendering services in the Cincinnati General Hospital or College of Medicine Dispensary pay tuition at the rate of \$5 a credit hour a semester.

COLLEGE OF LAW

Regular Students

The charge for tuition for regular students is \$60 a year, the first half payable upon registration, the second half at the beginning of the second term.

Special Students

The tuition fee a year to special students is \$15 for a one-hour course; \$25 for a two-hour course; \$30 for a three-hour course.

Summer School Students

If the enrollment justifies it, summer courses will be offered. The tuition fee will be \$15 for a one-hour course; \$25 for a two-hour course; \$30 for a three-hour course.

LABORATORY FEES

All laboratory fees are payable strictly *in advance*.

A student is not permitted to enter a laboratory course until he presents to the instructor in charge a receipt for the payment of his laboratory fee.

GRADUATE SCHOOL, COLLEGE OF LIBERAL ARTS, COLLEGE FOR TEACHERS

Graduate students taking laboratory courses in the College of Medicine must pay for each course \$15 a semester. (This includes surgical anatomy, bacteriology, bio-chemistry, histology, pathology, pharmacology, physiology.)

Art, \$5 per semester

Botany, \$10 per semester

Chemistry, \$15 per semester; \$15 per course per summer term (\$10 per course per summer term for pre-medics)

Geology, \$5 per semester; \$2.50 per semester for a course having but one laboratory period a week

Metallurgy, \$7.50 per semester; \$7.50 per summer term. (Not required of students taking chemistry.)

Physics, \$10 per semester; \$5 per semester for a course having but one laboratory period a week; \$15 per course per summer term

Psychology, \$5 per semester

Zoology, \$10 per semester for each course; \$15 per course per summer term

Home Economics. See fees indicated in the descriptions of the various courses offered on pp. 181-185. The fees for evening courses which teachers take for professional credit are:

Foods, \$6

Clothing, \$3

COLLEGE OF ENGINEERING AND COMMERCE

Blue Print, \$1 per semester

Drawing, \$1 per semester

Physics, \$10 per semester; \$5 per semester for a course having but one laboratory period a week

Cement, \$5 per semester

Chemistry, \$15 per semester; \$15 per summer term for all except Freshman cooperative engineers

Geology, \$2.50 per semester

Metallurgy, \$7.50 per year, payable first semester. Not required of students taking chemistry.

Engineering Courses

E.E. 13c, to E.E.'s, summer following second year	\$7 50
E.E. 5, to E.E.'s, third year	10 00
E.E. 5b, to E.E.'s, third year	10 00
E.E. 7c, to E.E.'s, summer following third year	7 50
E.E. 13c, to M.E.'s, summer following thrd year	7 50
E.E. 5a, to M.E.'s, fourth year	10 00
E.E. 5b, to M.E.'s, fourth year	10 00
E.E. 8c, to E.E.'s, summer following fourth year	7 50
E.E. 7a, to E.E.'s, fifth year	10 00
E.E. 8b, to E.E.'s, fifth year	10 00
E.E. 21a, to Ch.E.'s and C.E.'s, third year, first semester	10 00
M.E. 18c, summer following second year	10 00
M.E. 18a, first semester of third year	10 00
M.E. 18b, second semester of third year	10 00
M.E. 25c, summer following fourth year	10 00

M.E. 25a, first semester of fifth year	\$10 00
M.E. 39b, second semester of fifth year	10 00
C.E. 3c, for M.E.'s and E.E.'s, summer following fourth year ..	2 50
C.E. 5c, for C.E.'s, first winter term	5 00
C.E. 6b, for C.E.'s, second semester of third year	5 00
C.E. 11a, for C.E.'s, first semester of third year	5 00
C.E. 26c, for C.E.'s, second year winter term	6 00
Ch.E. 2a, to all first-year students	15 00
Ch.E. 4b, to all first-year students	15 00
Ch.E. 7c, to Ch.E.'s, summer following second year	15 00
Ch.E. 7a, to Ch.E.'s, third year	15 00
Ch.E. 9b, to Ch.E.'s, third year	15 00
Ch.E. 9c, to Ch.E.'s, third summer	15 00
Ch.E. (13a and 21a), fourth year	15 00
Ch.E. (17b and 33b), fourth year	15 00
Ch.E. (23a and 36a), fifth year	15 00
Ch.E. (23b and 36b), fifth year	15 00
Met.E. (1a and 1b), second year	7 50
Met.E. (3a and 3b), third year	7 50
Met.E. 6c, third summer	7 50
Met.E. 8a, fourth year	7 50
Met.E. (13a and 14a), fifth year	7 50
Met.E. (14b), fifth year	7 50

Evening Commerce Courses

Principles of Analytical Accounting	\$1 00
Principles of Constructive Accounting	3 00
Advanced Accounting	3 00
Cost Accounting	2 00
Auditing	1 00
Elements of Business Administration	2 00
Principles of Finance	2 00

COLLEGE OF MEDICINE

Graduate students taking laboratory courses in the College of Medicine must pay for each course \$15 a semester. (This includes surgical anatomy, bacteriology, bio-chemistry, histology, pathology, pharmacology, and physiology.)

GRADUATION FEES

All graduation fees must be paid at least two weeks before the day appointed for conferring the degree.

GRADUATE SCHOOL

A graduation fee of \$10 is charged a candidate for the degree of Master of Arts, and a fee of \$20 is charged for the degree of Doctor of Philosophy.

COLLEGE OF LIBERAL ARTS, COLLEGE FOR TEACHERS, COLLEGE OF ENGINEERING AND COMMERCE, SCHOOL OF NURSING AND HEALTH

The fee for an undergraduate degree or diploma is \$5.

COLLEGE OF MEDICINE

Students who receive the degree of Doctor of Medicine are charged a diploma fee of \$20.

MISCELLANEOUS FEES

COMBINATION COURSES

Regular students enrolled in the Graduate School, the College of Liberal Arts, or in the College for Teachers may elect in the College of Medicine courses for which they receive credit in their own college without the payment of additional tuition to the College of Medicine. They must, however, pay the usual laboratory fees.

Special students in the College of Liberal Arts and the College for Teachers who elect in the College of Medicine courses for which they receive credit in their own college are charged tuition at the rate an hour charged by the college in which the credit is received. They must, in addition, pay the usual laboratory fees charged by the Medical College.

In the combined arts and legal course of six years the student must pay tuition to the College of Law at the rate of \$100 a year for three years; but he need not pay tuition for studies pursued in the College of Liberal Arts, provided he be a citizen of Cincinnati. If a non-resident, he must pay tuition in the College of Liberal Arts at the rate of \$5 a credit hour, or a maximum of \$50 a semester.

Students in the College of Liberal Arts who are citizens of the city of Cincinnati, and elect any work whatsoever in the College of Engineering are charged the full tuition of \$37.50 a semester. Non-resident students are charged \$50 a semester.

Regular students in the College of Medicine may elect in the College of Liberal Arts and the College for Teachers courses for which they receive credit in their own college, without the payment of additional tuition. They must, however, pay the usual laboratory fees.

A regular student in the College of Law pursuing other than the six-year combined arts and legal course, and electing work in the College of Liberal Arts, must pay tuition in the College of Liberal Arts at the rate

of \$3 a semester hour, if he be a citizen of Cincinnati; and \$5, if a non-resident.

The tuition of such a student in the College of Law is either \$60 a year, or, if he takes less than the regular course, \$5 a credit hour for the year.

Special students who are taking courses in any college for professional purposes must pay the usual rate of tuition charged by the college in which credit is received.

GYMNASIUM FEE

A gymnasium fee of \$5 a year (\$2.50 a semester) is charged all students in the College of Liberal Arts and in the College for Teachers who take more than six hours of work a week.

A fee of \$5 a year (\$2.50 a semester) is charged all students in the University, members of the faculty, and alumni who desire to avail themselves of the privileges of the gymnasium and swimming pool.

In the special day classes in swimming or gymnasium, for which no credit is given, alumni and other persons pay as follows: residents, \$3 a course a semester; non-residents, \$5 a course a semester. In addition, these students pay the regular gymnasium fee of \$2.50 a semester. Thus the total cost a semester is \$5.50 for residents and \$7.50 for non-residents.

CONTINGENT FEE

A contingent fee of \$10 a year (\$5 a semester) is charged all regular non-resident students in the College of Liberal Arts and in the College for Teachers; a fee of \$5 (\$2.50 a semester) is charged all non-resident special or irregular students in those colleges taking more than six hours of work a week.

LIBRARY FEE

All students in the College of Liberal Arts, the College for Teachers, and the Evening Academic Courses, must pay a library fee of \$5 a year at the opening of the session.

LATE REGISTRATION FEE

Students who apply for registration or submit schedules of study on days other than those designated are required to pay a fee of \$1.

STUDENT ACTIVITY FEE

All regular day students in all the colleges of the University must pay a student activity fee of \$5 a year.

SPECIAL EXAMINATIONS FEE

A fee of \$1 is charged for each supplemental examination for the removal of conditions, and this fee must be paid even though the condition

is removed without a supplemental examination. A fee of \$5 is charged for entrance examinations on days other than those specified in the calendar. Every candidate who applies for the removal of a condition must present to the head of the department in which the condition occurred a receipt showing that the candidate has paid the fee of \$1, before the said head of department may report the removal of a condition to the Registrar.

HOSPITAL FEE

The hospital requires the payment of a fee of \$10 of all Senior medical students registered under the state law who attend hospital clinics or courses.

MICROSCOPE FEE

Each student must own a microscope approved by the professor of the department, or he may rent one from the college, at a cost of \$2.50 a semester.

STATE ENTRANCE CERTIFICATE FEE

Candidates for the diploma of Graduate Nurse pay a fee of \$3 for the State Entrance Certificate required and issued by the State Medical Board.

BREAKAGE DEPOSITS

An initial breakage deposit of \$10 is required of every student who registers for a laboratory course in chemistry, and a \$5 breakage deposit is required of all upper classmen (students not Freshmen) for each additional semester or summer term of laboratory work in the same school year. If, however, a student surrenders his laboratory outfit at the end of any semester or term, an initial breakage deposit of \$10 will be required when the student again registers for a laboratory course in chemistry.

Five dollars of this initial breakage deposit must be kept permanently upon deposit until all accounts with the Department of Chemistry have been settled. For the remaining \$5 a coupon-ticket is issued to the student, with which supplies and apparatus may be obtained at the chemistry storeroom. Should this coupon-ticket become exhausted, the student must purchase a new ticket (\$5) before further supplies will be issued to him at the storeroom.

A breakage deposit of \$5 is required of all students who register for a metallurgy laboratory course, except students who have paid the regular \$10 breakage deposit for chemistry.

Graduate students taking laboratory courses in the College of Medicine must make a breakage deposit of \$10.

All engineering students, except those registered for courses in chemistry laboratory, are required to make a deposit of \$5, payable at the beginning of the first semester.

Other breakage deposits are required as follows:

Civil engineering students, except those registered for courses in chemistry laboratory, \$5, payable at the beginning of the first semester.

Electrical and mechanical engineering students, except those registered for courses in chemistry laboratory, \$5, payable at the beginning of the summer term.

A deposit fee of \$10 is required of each medical student at the opening of each session as a guarantee against breakage of apparatus, instruments, furniture, etc., to be renewed by each student whenever the breakage or damage amounts to \$10. Each student is charged for loss for which he is individually responsible and for his pro rata share of such damage or loss for which the responsibility cannot be individually placed. The balance of this deposit, after deductions for damage have been made, is returned at the end of the year.

Candidates for the diploma of Graduate Nurse pay a breakage deposit of \$10. The hospital furnishes maintenance.

EXPENSES

	Graduate Liberal Arts, or Teachers	Engineering and Com. Reg. Coop.	Medicine	Commerce (Evening)	Home Economics	Law
Tuition:						
Res.	*	\$ 75 \$ 60	\$200	\$ 50	....	\$ 60
Non-Res.	\$100	100 100	200	75	\$100	60
Library Fee ...	5 00	5 00	....	5 00	5 00	....
Gym. Fee.	5 00	5 00	....	....	5 00	....
Contingent Fee						
Non-Res. ..						
Reg.	10 00	10 00	....	5 00	10 00	....
Spec.		5 00	....		5 00	....
Irreg.	5 00	....	....	....	....	....
Even.						
Student Activity						
Fee	5 00	5 00	5 00	....	5 00	5 00
Lab. Fees	**	\$35 to \$45	....	†	{ \$10 to \$20† \$ 5 to \$10\$ 40¢	
Books	\$20 to \$25	\$45	\$45 to \$60	\$20 to \$25	\$10 to \$15	\$20 to \$40
Board and Room,						
per week	\$6 to \$8	\$6 to \$8	\$6 to \$8	\$6 to \$8	\$6 to \$8	\$6 to \$8
Total Expense..	\$325	\$500	\$425	\$275	\$325	\$86
per annum ..	to \$485	to \$700	to \$550	to \$400	to \$425	to \$108

*Tuition in the Graduate School, the College of Liberal Arts, and the College for Teachers is free to residents of Cincinnati. Non-residents in the Graduate School pay \$5 a credit hour a semester.

**Laboratory fees vary according to the courses taken.

†Laboratory fees included in the tuition.

‡Foods laboratory fees.

§Textile laboratory fees.

¶Science laboratory fees.

THE GRADUATE SCHOOL

FACULTY AND INSTRUCTORS

CHARLES WILLIAM DABNEY, PH.D., LL.D.	President of the University
JERMAIN GILDERSLEEVE PORTER, PH.D.	Director of the Observatory and Professor of Astronomy
FREDERICK CHARLES HICKS, PH.D.	Sinton Professor of Economics and Commerce
HARRIS HANCOCK, PH.D., SC.D.	Professor of Mathematics
JOHN MILLER BURNAM, PH.D.	Professor of Latin
MAX POLL, PH.D.	Professor of the Germanic Languages
*MERRICK WHITCOMB, PH.D.	Professor of History
LOUIS TRENCHARD MORE, PH.D.	Professor of Physics and Dean of the Graduate School
HERMAN SCHNEIDER, SC.D.	Thoms Professor of Civil Engineering
BURTIS BURR BREESE, PH.D.	Professor of Psychology
†JOHN WILLIAM HALL, A.M.	Professor of Education
WILLIAM PAXTON BURRIS, A.M., L.H.D.	Professor of Education
STEPHEN ELMER SLOCUM, B.E., PH.D.	Professor of Applied Mathematics
NEVIN M. FENNEMAN, PH.D.	Professor of Geology and Geography
GUY ALLAN TAWNEY, PH.D.	Professor of Philosophy
FRANK WADLEIGH CHANDLER, PH.D.	Professor of English and Ropes Professor of Comparative Literature
PHILLIP OGDEN, PH.D.	Professor of Romance Languages
†PAUL GERHARDT WOOLLEY, B.S., M.D.	Mary M. Emery Professor of Pathology
MARTIN H. FISCHER, M.D.	Joseph Eichberg Professor of Physiology
HENRY McELDERRY KNOWER, PH.D.	Francis Brunning Professor of Anatomy
ALEXANDER MASSEY WILSON, M.E.	Professor of Electrical Engineering
HARRIS MILLER BENEDICT, PH.D.	Professor of Botany
SELDEN GALE LOWRIE, PH.D.	Professor of Political Science
WILLIAM BUCHANAN WHERRY, A.B., M.D.	Professor of Bacteriology and Hygiene
ROGER S. MORRIS, A.B., M.D.	Frederick Forchheimer Professor of Medicine
WILLIAM JAMES BATTLE, PH.D.	Professor of Greek
ALFRED LAWRENCE HALL-QUEST, A.M.	Professor of Education
ROBERT C. PUGH, LL.B.	G. H. Wald Professor of Law of Contracts
GUSTAVE MAURICE BRAUNE, C.E.	Professor of Civil Engineering
HARRY SHIPLEY FRY, PH.D.	Professor of Chemistry and Director of the Chemical Laboratory
HARRY LEWIS WIEMAN, PH.D.	Professor of Zoology
EDWARD F. MALONE, A.B., M.D.	Professor of Histology
ALEXANDER LEWIS JENKINS, M.E.	Professor of Mechanical Engineering
ALBERT PRESCOTT MATHEWS, PH.D.	Professor of Bio-Chemistry
DENNIS E. JACKSON, PH.D., M.D.	Professor of Pharmacology, Materia Medica, and Therapeutics

*Absent on leave, 1919-1920

†Resigned

- ORLAND R. SWEENEY, PH.D. Professor of Chemical Engineering
 SAMUEL JAMES MCINTOSH ALLEN, PH.D. . . . Professor of Experimental Physics
 CLAUDE M. LOTSPEICH, PH.D. . . . Professor of Comparative Philology, Department of German
 FRANK K. SECHRIST, PH.D. Professor of Education
 EARL C. ARNOLD, A.B., LL.B. Professor of Law
 CHARLES E. WEBER, LL.B. Professor of Law
 CARL C. WHEATON, LL.B. Professor of Law
 ELMER CUMMINGS GRIFFITH, PH.D. Acting Professor of History
 CLYDE WILLIAM PARK, A.M. Professor of English, College of Engineering and Commerce
 *WILLIAM HAMMOND PARKER, PH.D. Professor of Social Science
 HENRY MAX GOETTSCH, PH.D. Associate Professor of Industrial Chemistry
 CHARLES NAPOLEON MOORE, PH.D. Associate Professor of Mathematics
 CLARENCE D. STEVENS, A.M. Associate Professor of English
 HENRY G. HARTMAN, PH.D. Associate Professor of Philosophy
 CLARENCE ORAN GARDNER, PH.D. Associate Professor of Political Science
 RALPH EDWARD OESPER, PH.D. Associate Professor of Analytical Chemistry
 RALPH EDWARD OESPER, PH.D., Associate Professor of Analytical Chemistry
 SHIRO TASHIRO, PH.D. Associate Professor of Bio-Chemistry
 CLARENCE JAMES FOREMAN, PH.D. Associate Professor of Economics
 †BERTHA K. YOUNG, A.M. Assistant Professor of English
 ORVILLE TURNER WILSON, PH.D. Assistant Professor of Botany
 HENRY ROBINSON SHIPHERD, PH.D. Assistant Professor of English
 WALTER H. BUCHER, PH.D. Assistant Professor of Geology
 OTTO CHARLES VON SCHLICHTEN, A.B. Assistant Professor of Geology
 ERNEST LYNN TALBERT, PH.D. Assistant Professor of Psychology
 HUBERTIS MAURICE CUMMINGS, PH.D. Assistant Professor of English
 REGINALD CHARLES MCGRANE, PH.D. Assistant Professor of History
 EDWARD C. DAY, PH.D. Assistant Professor of Zoology
 *STEPHEN J. FELTON, MET.E. Assistant Professor of Metallurgy
 MERTON JEROME HUBERT, A.M. Assistant Professor of Romance Languages
 WILLIAM A. CROWLEY, PH.D. Assistant Professor of Philosophy
 IRVING H. BROWN, A.M. Assistant Professor of Romance Languages
 JOHN C. DONALDSON, PH.B., M.D. Assistant Professor of Anatomy
 SELBY FRAME VANCE, A.M., D.D., LL.D. . . . Lecturer on Biblical Literature
 LOUIS A. PASSARELLI, A.M. Instructor in Romance Languages
 E. LUCY BRAUN, PH.D. Instructor in Botany
 *CLIFFORD JAY ROLLE, PH.D. Instructor in Chemistry
 FLOYD ELDON BEGHEL, A.M. Instructor in Botany
 CLARENCE A. MILLS, A.B. Instructor in Bio-Chemistry
 WALTER C. PHILLIPS, PH.D. Instructor in English
 RAYMOND CHAMBERS, A.M. Instructor in History
 GEORGE E. DAVIS, A.M. Instructor in Mathematics
 *LAURENCE HUNTINGTON VAN MATRE Instructor in Social Science

*Resigned

†Absent on leave, 1919-1920

ADMISSION

Admission to the Graduate School is granted to holders of a Bachelor's degree conferred by the University of Cincinnati, and to those who present documentary evidence of having received such a degree from other institutions whose requirements are substantially equivalent. Admission to the Graduate School does not, however, signify candidacy for an advanced degree.

Properly qualified students, when duly registered, may, with the approval of the heads of the departments concerned, be admitted as auditors to courses of study. No work taken by auditors may under any circumstances be counted towards a degree.

FELLOWSHIPS, SCHOLARSHIPS
AND PRIZES

THE D. A. R. FELLOWSHIP IN AMERICAN HISTORY was established in 1900 by the Daughters of the American Revolution. It yields an income of \$100 per annum.

THE HANNA FELLOWSHIP IN PHYSICS was established by Mrs. Henry Hanna and Miss Mary Hanna in 1906. Its value is \$500 a year, in addition to exemption from tuition and laboratory fees.

THE TEN BALDWIN FELLOWSHIPS, each amounting to \$500 in addition to exemption from tuition and laboratory fees, have been provided by the Francis Howard Baldwin bequest. For further information apply to the Dean of the Graduate School.

THE DU PONT FELLOWSHIP, of \$600, was offered for the session 1919-1920 by the E. I. Du Pont de Nemours Company. The recipient was required to do graduate work in chemistry or chemical engineering.

THE ALLIANCE FRANÇAISE SCHOLARSHIP, of \$300, was established in 1904 by the Alliance Française of the city of Cincinnati. It is awarded to the student in the Department of Romance Languages showing the greatest proficiency in French. The successful candidate is required to attend the summer course of instruction given by the Alliance Française in Paris.

THE ARMSTRONG-HUNTER MEMORIAL FUND, valued at \$1,000, was established in 1910 in memory of Miss Sarah J. Armstrong and Miss Clara Hunter, by eighty of their former pupils. This fund has been used to found a scholarship in the Department of English Literature in the Graduate School, for a woman who is a graduate of the University.

RHODES SCHOLARSHIPS.—Men who have completed their Sophomore year at the University of Cincinnati are eligible to compete for the Cecil Rhodes Scholarships, tenable for three years at Oxford University, Eng-

land, with a stipend of \$1,500 each year. These scholarships are awarded on the combined basis of character, scholarship, athletics, and leadership in extra-curriculum activities. Further information may be obtained from any member of the Rhodes Scholarship Committee of Selection for Ohio: Chairman, President W. O. Thompson, Ohio State University, Columbus, Ohio; Professor B. E. Schmitt, Western Reserve University, Cleveland, Ohio; Cary R. Alburn, Esq., Attorney, Garfield Bank Building, Cleveland, Ohio; Secretary, Professor Leigh Alexander, Oberlin College, Oberlin, Ohio.

In addition to the above, the University offers ten scholarships in several departments which exempt their holders from the payment of tuition fees. Applications should be addressed to the Dean of the Graduate School.

REQUIREMENTS FOR THE DEGREE OF MASTER OF ARTS

Completion of the requirements for the Master's degree requires at least one full year's residence in the Graduate School. Acceptance in candidacy for the degree of Master of Arts shall be determined by the Advisory Committee not later than the beginning of the last semester of work. When a student's college training has been defective, or when he is registered in a professional school, engaged in teaching, or otherwise occupied so that he cannot devote his entire time to his work, the Advisory Committee shall determine how much, if at all, the one-year period should be increased.

A student desiring to become a candidate for this degree shall designate, at the time of his admission to the Graduate School, the subjects and courses which he elects to study, and shall at the same time obtain approval of his election from his Adviser (the head of the department in which he elects his major work). The student must then satisfy the Dean of the Graduate School that the courses he has elected have been approved by the heads of the departments concerned.

The courses offered for the degree of Master of Arts shall represent not less than twenty-four credit hours of graduate instruction, of which at least twelve shall be in the major subject. In case the candidate elects a major in the same department in which he has completed a major in fulfillment of the requirements for a Bachelor's degree, he may, under the direction of his Adviser, elect sufficient work in some allied department to complete the twelve credit hours. No credit is given for a course in which the student does not receive a record of "Satisfactory."

Each candidate for the Master's degree must present a thesis on a subject approved by his Adviser. The title of this thesis shall be sub-

mitted to the Dean at least six months before the degree is conferred. The thesis must be typewritten on regulation paper and be filed with the Dean before the close of the final semester of graduate study, together with a certificate of approval from the student's Adviser. The date for submitting the thesis is determined by the Adviser.

Candidates for the degree of Master of Arts are required to pass an oral examination before a committee of the faculty.

Degrees are not conferred *in absentia*, except by special permission from the President.

REQUIREMENTS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

For the Doctor's degree three years of graduate study will ordinarily be required. In cases where the student's college training has been defective or he cannot devote his whole time to the work, the period of study will be longer than three years. At least the last year of study must be spent in residence at the University of Cincinnati. Students may be permitted to count for the Doctor's degree work done for the Master's degree, provided that such work is satisfactory in character.

A candidate for the Doctor's degree shall designate at the time of his admission to the Graduate School three subjects which he desires to pursue. These are known as a major and two minor subjects, not more than two of which shall be selected in one department. The candidate shall satisfy the Dean of the Graduate School that his selection has received the approval of the heads of the departments in which the courses have been selected. These heads of departments, together with the Dean of the Graduate School, constitute an advisory committee, under whose direction the candidate shall pursue his graduate course.

A candidate for the Doctor's degree is expected to be able to read French and German. In order to receive the degree he must have completed satisfactorily such courses as shall be prescribed by his Advisory Committee, representing not less than forty-eight units of instruction embodied in a major and two minor subjects, thirty units of which must be given to the major subject, and must have passed such written examination on his major and minor subjects as the Advisory Committee may indicate. The statement of the number of units required for the Doctor's degree is to be taken as a minimum requirement. The degree is given, not as a result of the completion of a certain number of units of study, but on the basis of long study and scientific accomplishment. No credit is given for a course in which the student does not receive a record of "Satisfactory."

The candidate is furthermore required to present, in such form as the Advisory Committee may determine, a thesis which gives evidence of high

attainment and power of independent research, and he must pass satisfactorily an oral examination before the faculty.

All theses offered for the Doctor's degree must be filed with the Dean not later than six weeks before the close of the final semester of graduate study. Moreover, each student upon whom the degree of Doctor of Philosophy is conferred, is required to deposit in the University library one hundred printed copies of his thesis. If the thesis is published in a journal approved by the candidate's Advisory Committee, ten printed copies may be deposited in the library. The candidate may receive his diploma before the thesis is printed, provided a typewritten copy is deposited with the Librarian and the sum of \$50 with the Registrar of the University. This sum will be returned upon the presentation to the library of the required number of printed copies of the thesis.

Degrees are not conferred *in absentia*, except by special permission from the President.

ADMISSION TO ADVANCED STANDING

Work done at other universities may be accepted as an equivalent for part of the work required for a graduate degree. All claims for such credit, together with all claims for advanced standing, must be filed with the Dean of the Graduate School within three weeks after the student enters upon his work at the University or resumes his work after a leave of absence for the purpose of carrying on work at another university.

At least twelve credits of the twenty-four required for the Master of Arts degree must be obtained by work done in residence at the University of Cincinnati.

INSTRUCTION

The work of each candidate for a degree shall be under the direction of an advisory committee, composed of the Dean and of the heads of the departments in which the work is taken.

The unit of instruction is one period a week for one semester.

Graduate students will receive no credit towards a degree of Master of Arts or Doctor of Philosophy for courses which are not of an advanced character. All courses for which credit is expected must be listed in the catalogue of the Graduate School. Supplementary work must be specified in courses which are intended primarily for advanced undergraduate students; otherwise, but half credit will be allowed.

While the nature of the student's work may vary in the subjects selected, it is understood to require a regular attendance at class meetings or in the laboratory, and shall not be in any respect of that character of work known as *in absentia*. No credit will be given towards a graduate degree for work done prior to the conferring of a Bachelor's degree or its equivalent.

SPECIAL ARRANGEMENTS

With the approval of the Dean of the Graduate School and their Advisers, candidates may submit the following courses taken in the Lane Theological Seminary and in the collegiate department of the Hebrew Union College in partial fulfillment of the requirements for the Master of Arts degree. Not more than twelve units may be so counted.

LANE THEOLOGICAL SEMINARY

3. Old Testament History. Dr. Farr
5. The Psalms.—*First semester*. Dr. Farr
6. The Prophets.—*Second semester*. Dr. Farr
4. Old Testament Thought.—*First semester*. Dr. Farr
13. Messianic Prophecy.—*Second semester*. Dr. Farr

HEBREW UNION COLLEGE

1. Biblical Literature
2. Rabbinical Literature
3. Jewish Philosophical Literature

For detailed description of above courses, see catalogue of the Hebrew Union College.

COURSES OF INSTRUCTION

1919-1920

Courses in the Graduate School extend throughout the year, unless designated by "a" (first semester) or "b" (second semester).

ANATOMY

Facilities are at hand for graduate students electing work in gross human anatomy, histology, neurology, or embryology from a comparative standpoint. Graduate work in these subjects, fulfilling the requirements for the A.M. or PH.D. degrees, will involve more general and philosophical aspects and topics than are expected, at present, from candidates for the M.D. degree.

Drs. Knowler, Malone, Donaldson

Any of the regular anatomical courses (see Announcement of College of Medicine) are open to undergraduate or graduate students of the University who can show the necessary preliminary preparation and who desire *credits in these subjects towards degrees other than the medical degree*. Applicants should first consult the deans of the faculties supervising their other work. Those interested in research or other special work in anatomy are requested to apply to the Director of the Anatomical Laboratories, Professor Knowler.

ASTRONOMY

FOR GRADUATES AND UNDERGRADUATES

An extra amount of computing will be required of graduate students in the following courses:

103. SPHERICAL AND PRACTICAL ASTRONOMY.—Once a week throughout the year. Mr. Porter
104. CELESTIAL MECHANICS.—Once a week throughout the year. Mr. Porter

BACTERIOLOGY AND HYGIENE

104. RESEARCH.—Open to any qualified person after consultation with the head of the department. Credit according to number of hours elected. Dr. Wherry

BIBLICAL LITERATURE

112. SOCIAL TEACHINGS OF THE BIBLE.—An inductive study of the social teachings of the Prophets, Sages, and Jesus. For graduate credit a thesis on an assigned topic will be required. Tu., Th., 11:30-12:30. Mr. Vance
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BIO-CHEMISTRY

PRIMARILY FOR GRADUATES

- 104b. ADVANCED BIO-CHEMISTRY.—Lecture course. Continuation course for medical and graduate students. *Second semester*. Fifteen hours. One credit hour. Mr. Mathews
- 105b. ADVANCED BIO-CHEMISTRY.—Laboratory course. Quantitative methods of bio-chemical analysis of urine, blood, and tissues. Six or 12 hours a week. Two, 3, or 6 credit hours.
Mr. Mathews, Mr. Tashiro, Mr. Mills
Prerequisite: Courses 1 and 2 or equivalent
106. PHYSICO-CHEMICAL METHODS OF BIO-CHEMISTRY.—Conferences and laboratory 6 or 12 hours a week. Three or 6 credit hours.
Mr. Tashiro
107. RESEARCH. Mr. Mathews, Mr. Tashiro
108. SEMINAR.—Open to graduate and medical students. Fifteen hours. One credit hour. Department Staff
109. MICROCHEMICAL METHODS.—For studying cell respiration. Three or 6 credit hours. Mr. Tashiro
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BOTANY

To pursue advanced courses in botany the student should have some training in physics and chemistry, and should be able to read French and German. Special facilities are afforded students pursuing courses of research.

REQUIREMENTS FOR DEGREES

To enter upon work for the degree of Master of Arts in botany, students must have completed Courses 1, 2, 3, 4, 5, 6a, 6b, 16a, 16b, 18, or their equivalents. (See Announcement of the College of Liberal Arts.) Courses "For Undergraduates and Graduates" may be counted as graduate subjects towards the degree of Master of Arts by students who have elected majors in other departments. When botany is chosen as a minor for the degree of Doctor of Philosophy, the work required approximates that of the full course for the degree of Master of Arts in botany. The requirements for a higher degree, when botany is chosen as a major subject, are adequately stated under the general requirements for degrees (pages 80-82).

FOR GRADUATES AND UNDERGRADUATES

A thesis is required of all graduates who enroll in courses open to undergraduates.

105. **SYSTEMATIC BOTANY.**—One lecture with one laboratory or field period of work a week on the local plants. Lec., M., 4:00-5:00; lab., M., 1:00-3:00. Miss Braun
Prerequisite: Courses 1 and 2
- 106a. **PLANT PATHOLOGY.**—The causes, symptoms, and prevention of plant diseases. Lec., Tu., 8:30; lab., Tu., Th., 8:30-11:30. Mr. Wilson
- 106b. **BACTERIOLOGY.**—Study of the physiology and morphology of bacteria. Lec., Tu., 8:30; lab., Tu., Th., 8:30-11:30. Mr. Wilson
- 116a. **PLANT HISTOLOGY.**—Lec., M., 1:00-2:00; lab., M., W., 1:00-4:00. Prerequisite: Two years' work in botany Mr. Beghtel
- 116b. **PLANT CYTOLOGY.**—Lec., M., 1:00-2:00; lab., M., W., 1:00-4:00. Prerequisite: Course 116a Mr. Beghtel
117. **SPECIAL PROBLEMS.**—One, two, or three credits. Instructor according to problem chosen.
Prerequisite: Three years' work in botany
118. **PLANT PHYSIOLOGY.**—Open to Seniors and graduate students in botany. Three lectures a week. Mr. Benedict

PRIMARILY FOR GRADUATES

120. **CURRENT PROBLEMS IN BOTANY.**—Reviews of recent researches. One or two credit hours. Mr. Benedict
Prerequisite: Courses 1, 2, 3, 4, 5, 6a, 6b, 16a, 16b, 18
121. **RESEARCH.**—Credit according to number of hours elected. Mr. Benedict, Mr. Wilson

CHEMISTRY

SPECIAL REQUIREMENTS FOR HIGHER DEGREES

THE DEGREE OF DOCTOR OF PHILOSOPHY

A. Chemistry as the Major Subject.—All candidates who make chemistry their major subject must offer the following courses or their equivalents (see Announcement of the College of Liberal Arts): 1a, 2a, 3b, 4b, 5a, 6, 7, 8b, 9b, 12a, 13a. In addition to these requirements, students who specialize in a certain branch of chemistry must complete the advanced courses required in connection with the choice made. Each candidate for an advanced degree in chemistry must take an active part in the chemistry seminar during his graduate residence. The completion of these courses, however, does not satisfy the requirements to be fulfilled by the candidate for a higher degree; he must show a maturity acquired by personal intimacy with the literature and methods of chemistry.

B. Chemistry as the Minor Subject.—It is not possible to state precisely those courses which may be required in each particular case. The choice will be made after consultation with the heads of the departments in which the major work falls. The usual minimum requirements are Courses 1a, 2a, 3b, 4b, 5a, 6, 7. If the candidate has chosen one of the physical sciences as his major subject, Courses 12a and 13a (one semester) are required; if one of the biological sciences has been made the major subject, Courses 8b and 9b are taken.

THE DEGREE OF MASTER OF ARTS

A candidate for the Master's degree must present a thesis embodying the results of some experimental work, or a written account in some detail of a subject suggested by the instructor under whose direction the student has been placed.

FOR GRADUATES AND UNDERGRADUATES

Graduate students who register for Courses 110a-124b are required to complete additional assignments of a more advanced character than those required of undergraduates.

110a. ADVANCED INORGANIC CHEMISTRY.—Tu., Th., 8:30-9:30.

Mr. Fry

111. INORGANIC PREPARATIONS.

Mr. Fry

112a. PHYSICAL CHEMISTRY.—M., W., F., 10:30-11:30.

Mr. Rolle

113a. PHYSICAL CHEMISTRY, LABORATORY.—M., W., 1:00-4:00.

Mr. Rolle

119a. INTERMEDIATE ORGANIC CHEMISTRY.—M., W., F., 8:30-9:30.

Mr. Farnau

- 132b. ELECTRO-CHEMISTRY.—M., W., F., 10:30-11:30. Mr. Rolle
- 133b. ELECTRO-CHEMISTRY, LABORATORY.—M., W., 1:00-4:00.
Mr. Rolle
- 134a. COLLOID CHEMISTRY.—Three lectures a week. Mr. Oesper
128. ULTIMATE ORGANIC ANALYSIS. Mr. Oesper
- 120b. ADVANCED ORGANIC CHEMISTRY.—M., W., F., 8:30-9:30.
Mr. Farnau
121. ADVANCED ORGANIC CHEMISTRY, LABORATORY.—Credit according
to number of hours elected. Mr. Farnau, Mr. Rolle
- 124b. HISTORY OF CHEMISTRY.—Three exercises a week. Mr. Fry

PRIMARILY FOR GRADUATES

130. RESEARCH.—Problems for investigation may be chosen from the
following: organic chemistry (130a), inorganic chemistry (130b),
physical chemistry (130c), industrial chemistry (130d), or metal-
lurgy (130e).
Mr. Fry, Mr. Sweeney, Mr. Goettsch, Mr. Oesper, Mr. Farnau,
Mr. Felton

During the summer of 1920 students engaged in research may enroll
in the Graduate School.

140. JOURNAL CLUB MEETINGS.

CIVIL ENGINEERING

- C. E. 124. ADVANCED RESEARCH WORK

ECONOMICS

(The Sinton Professorship)

FOR GRADUATES AND UNDERGRADUATES

In the following courses additional reading and reports will be required
of graduate students.

111. ELEMENTS OF ECONOMICS.—Tu., Th., 3:00-4:00. Mr. Hicks
113. DEVELOPMENT OF ECONOMIC INSTITUTIONS.—M., F., 3:00-4:00.
Mr. Hicks

114. ECONOMIC POLICIES IN THEIR RELATION TO DISTRIBUTION.—*Second semester*, M., F., 3:00-4:00. Mr. Hicks
119. MONEY AND BANKING.—*First semester*, M., W., F., 9:30-10:30. Mr. Foreman
120. TRUSTS.—*Second semester*, M., W., F., 10:30-11:30. Mr. Foreman
117. SOCIALISM.—*First semester*, Tu., Th., 2:00-3:00. Mr. Hicks
116. LABOR.—*Second semester*, Tu., Th., 2:00-3:00. Mr. Hicks
131. STATISTICS.—M., 5:00-7:00. Mr. Foreman

PRIMARILY FOR GRADUATES

112. HISTORY OF ECONOMIC THEORY.—Twice weekly. Mr. Foreman
121. SEMINARY.—W., 2:00-4:00. Mr. Hicks
123. RESEARCH.—Credit according to number of hours elected.
Mr. Hicks, Mr. Foreman

EDUCATION

Those candidates for graduate degrees who intend to become instructors in education, and those who wish to qualify for supervisory or administrative positions in schools, may elect education as the major subject; other graduate students may elect education as a minor, subject to the approval of the head of the department in which the candidate's major subject is chosen.

Subject to the approval of the instructor in each case, graduate courses in education are open also to teachers who are prepared to pursue such courses in a satisfactory manner, even though such teachers be not candidates for a graduate degree.

A candidate for a graduate degree who elects education as a major subject must have had approved undergraduate courses in education and psychology, and will be required to take Education 101. Beyond these requirements the candidate's elections are subject to the approval of the instructors in education.

101. PHILOSOPHY OF EDUCATION.—The method of philosophy applied in testing theories of education. The implications and applications of significant facts of biology, psychology, sociology, ethics, and logic, are considered in the effort to reach a consistent formulation of the meaning of education. Tu., 4:00-6:00. Mr. Burris

103. **SECONDARY EDUCATION.**—Function of the high school; programs of study; curriculum making; lesson types; place of high school in American education; the high school teacher; pupil management; educational significance of the various studies. Tu., 4:00-6:00. Mr. Hall-Quest
104. **THE PROBLEMS OF ENGLISH IN THE SECONDARY SCHOOL.**—A consideration of the principles underlying courses in oral and written composition and literature. S., 8:30-10:30. Mr. Hall-Quest
105. **SEMINAR IN SECONDARY EDUCATION.**—W., 4:00-6:00. Alternates with Courses 109a and b Mr. Hall-Quest
107. **ADMINISTRATION OF EDUCATION.**—The history and present status of the organization and administration of school systems in the United States. Special attention is given to the progress of reform in school administration during the last quarter century, and to the work of surveys in which methods of scientific measurement have been employed. W., 4:00-6:00. Mr. Burris
Alternates with Course 112
108. **CRITICISM AND SUPERVISION OF INSTRUCTION.**—W., 4:00-6:00. Mr. Hall
110. **EXPERIMENTAL PEDAGOGY.**—A course of original investigation in which each student chooses a topic, subject to approval by the instructor, and pursues his problem throughout the year in the related current literature and experimental results published in English and other modern languages. W., 4:00-6:00. Mr. Sechrist
111. **GREAT EDUCATORS.**—From time to time this course will be devoted to a critical study of modern educational theories contained in the writings of educators whose influences are felt in current educational opinion and practice. Th., 4:00-6:00. Mr. Burris
- 1919-20. Herbart and Spencer
1920-21. Froebel and Dewey
1921-22. Locke and Rousseau

ENGLISH

COMPARATIVE LITERATURE

(Nathaniel Ropes Foundation for the Comparative Study of Literature)

FOR GRADUATES AND UPPER CLASSMEN

Additional reading and reports are required of graduates taking courses open to undergraduates.

112. LITERARY COMPOSITION.—Tu., Th., 10:30-11:30. Mr. Shipherd
Membership in Course 112 is strictly limited. Those who wish to
register should first submit manuscripts to the instructor for
approval.
147. HISTORY OF THE ENGLISH LANGUAGE. Mr. Lotspeich
Sec. I: Tu., Th., 8:30-9:30
Sec. II: W., 4:00-6:00
110. CHAUCER AND HIS PERIOD.—S., 9:30-11:30. Mr. Stevens
144. STUDIES IN SHAKESPEARE.—Tu., Th., 3:00-4:00. Mr. Shipherd
- 126a. THE ESSAY.—Th., 4:00-6:00. Mr. Park
117. RECENT ENGLISH AND AMERICAN POETRY.—Tu., Th., 11:30-12:30.
Mr. Cummings
143. CONTEMPORARY EUROPEAN FICTION.—Tu., Th., 10:30-11:30.
Mr. Stevens
130. TYPES OF COMIC LITERATURE.—Tu., Th., 2:00-3:00. Mr. Chandler
124. RECENT EUROPEAN DRAMA.—Tu., Th., 1:00-2:00. Mr. Chandler

FOR GRADUATES ONLY

120. THEORIES OF LITERATURE: SEMINARY.—M., 4:00-6:00.
Mr. Chandler

GEOLOGY AND GEOGRAPHY

FOR GRADUATES AND UNDERGRADUATES

- 105b. FIELD GEOLOGY AND SURVEY METHODS.—Hours and amount of
credit to be arranged by agreement with each student.
Mr. Bucher
107. MINERALOGY.—Lectures and laboratory. Additional determina-
tions required for graduate credit. M., W., F., 9:30-10:30; F.,
1:00-4:00. Mr. von Schlichten
112. PETROLOGY.—M., 10:30-11:30; Tu., Th., 9:30-11:30.
Mr. von Schlichten
113. SPECIAL WORK IN GEOLOGY.—Credit according to number of hours
elected.
116. ADVANCED PHYSIOGRAPHY OF THE UNITED STATES.—Additional
papers required for graduate credit. Lec., W., 4:00-6:00; S.,
10:30-11:30. Mr. Fenneman
110. ADVANCED PALEONTOLOGY.—Th., 4:00-6:00. Mr. Bucher
111. STRUCTURAL GEOLOGY.—Tu., 4:00-6:00. Mr. Bucher
122. APPALACHIAN FIELD COURSE.—Eight weeks during summer in
camp in southwestern Virginia. Eight credits.
Mr. von Schlichten

GERMAN

FOR GRADUATES AND UNDERGRADUATES

Additional reading is required of all graduate students who enter courses open to undergraduates.

105. HISTORY OF GERMAN LITERATURE TO THE NINETEENTH CENTURY.
Special study of the classic periods of the twelfth and eighteenth centuries. M., W., F., 10:30-11:30. Mr. Poll

PRIMARILY FOR GRADUATES

117. GERMAN DRAMA OF THE NINETEENTH AND TWENTIETH CENTURIES.
Th., 4:00-6:00. Mr. Poll
Prerequisite: Course 105
107. MIDDLE HIGH GERMAN.—Th., 4:00-6:00. Mr. Poll

GREEK

FOR GRADUATES AND UNDERGRADUATES

Additional reading will be required of graduate students taking work in courses open to undergraduates.

104. ADVANCED READING.—Tu., Th., 1:00-2:30. Mr. Battle

FOR GRADUATES ONLY

123. CONFERENCE COURSE.—M., W., 2:00-3:30. Mr. Battle

HISTORY

FOR GRADUATES AND UNDERGRADUATES

Graduate students enrolled in mixed courses are expected to do extra work in order to receive full credit for the course.

125. EUROPEAN HISTORY SINCE 1814.—Tu., Th., 10:30-11:30.
Mr. Griffith

Recommended for students who have had History 3.

117. RECENT AMERICAN HISTORY.—M., W., F., 8:30-9:30.
Mr. McGrane
120. SPAIN AND SPANISH AMERICA.—M., W., F., 9:30-10:30.
Mr. Chambers
162. HISTORY OF THE WEST.—Tu., Th., 1:00-2:00. Mr. Chambers

PRIMARILY FOR GRADUATES

163. SEMINARY IN EUROPEAN HISTORY: THE PEACE TREATIES.—Tu.,
4:00-6:00. Mr. Griffith
For graduate students

NOTE.—Certain courses in Lane Seminary and in the Hebrew Union College are accepted for credit towards a Master's degree. For further information consult the head of the Department of History.

LATIN

FOR GRADUATES AND UNDERGRADUATES

104. SELECTIONS FROM CICERO DE ORATORE AND BRUTUS.—Additional work must be taken by those who desire graduate credit; in no case may such credits be counted towards the Doctor's degree. Three hours. Mr. Burnam

*FOR GRADUATES ONLY

(Hours in all cases to be arranged)

109. LATIN AND ROMANCE PALAEOGRAPHY.—Requires the ability to read French and German. Three hours. Mr. Burnam
Prerequisite: Four years of undergraduate Latin

SANSKRIT

132. ADVANCED COURSE—Two or three hours. Mr. Burnam
Prerequisite: A first-year course

*Admission to graduate courses is permissible only after consultation with the instructor.

MATHEMATICS

FOR GRADUATES AND UNDERGRADUATES

- 108a. ADVANCED INTEGRAL CALCULUS.—M., W., F., 9:30-10:30. Additional examples required of graduate students. Mr. Hancock
- 109b. DIFFERENTIAL EQUATIONS—M., W., F., 9:30-10:30. Mr. Hancock

PRIMARILY FOR GRADUATES

131. THEORY OF NUMBERS, PART II.—Algebraic numbers. Dedekind's Theory. Tu., Th., 4:00-6:00. Mr. Hancock
128. THEORY OF FUNCTIONS OF A COMPLEX VARIABLE.—M., W., 4:00-5:30. Mr. Moore
126. HISTORY AND TEACHING OF MATHEMATICS.—W., 4:00-5:00; F., 4:00-6:00. Mr. Slocum
140. SEMINARY.—Credit according to number of hours elected. Hours by special agreement. Mr. Slocum

MATHEMATICS (APPLIED)

PRIMARILY FOR GRADUATES

126. HISTORY AND TEACHING OF MATHEMATICS.—Three hours credit. Open to teachers in the public schools. Mr. Slocum
- 111a. FOURIER'S SERIES AND SPHERICAL HARMONICS.—*First semester*. Three hours credit. Mr. Slocum
- 110b. THEORY OF ERRORS AND METHOD OF LEAST SQUARES.—*Second semester*. Three hours credit. Mr. Slocum
- 116a. THEORETICAL MECHANICS (ADVANCED COURSE).—*First semester*. Three hours credit. Mr. Slocum
- 116b. THE MATHEMATICAL THEORY OF ELASTICITY.—*Second semester*. Three hours credit. Mr. Slocum
140. SEMINARY.—Research in some special topic of applied mathematics or mechanics. Credit according to number of hours elected. Hours by special arrangement. Mr. Slocum

MECHANICAL ENGINEERING

- M. E. 132. ADVANCED EXPERIMENTAL ENGINEERING

PATHOLOGY

108. RESEARCH.—Open to any qualified person after consultation with the head of the department. Dr. Woolley

PHILOSOPHY

FOR GRADUATES

While these courses include the undergraduate courses coming at the same hours, they are more intensive than the latter and involve in part another subject-matter.

- 102a. LOGIC.—M., W., F., 11:30-12:30. Mr. Tawney
- 102b. THEORY OF SCIENTIFIC METHOD.—M., W., F., 11:30-12:30. Mr. Tawney
- 104a. HISTORY OF PHILOSOPHY TO THE BEGINNING OF THE CHRISTIAN ERA.—M., W., F., 8:30-9:30. Mr. Hartman
- 104b. HISTORY OF THE PHILOSOPHY OF THE MIDDLE AGES.—M., W., F., 8:30-9:30. Mr. Hartman
- 105a. ETHICS.—
- Sec. I: M., W., F., 10:30-11:30 Mr. Tawney
- Sec. II: M., W., F., 10:30-11:30 Mr. Crowley
- Sec. III: M., W., F., 1:00- 2:00 Mr. Crowley
- 105b. ETHICAL INTERPRETATIONS.—
- Sec. I: M., W., F., 10:30-11:30 Mr. Tawney
- Sec. II: M., W., F., 10:30-11:30 Mr. Crowley
- Sec. III: M., W., F., 1:00- 2:00 Mr. Crowley
122. ETHICS.—M., 7:30-9:30. Mr. Crowley
- 108a. AESTHETICS.—The theory of art and the beautiful. Tu., Th., 1:00-2:00. Mr. Hartman
- 108b. AESTHETICS.—The theory of art and the beautiful. Tu., Th., 1:00-2:00. Mr. Hartman
126. ANCIENT AND MEDIEVAL PHILOSOPHY.—Th., 5:00-7:00. Mr. Hartman
120. BRITISH EMPIRICISM.—Th., 8:30-10:30. Mr. Hartman
112. PHILOSOPHICAL METHOD.—Tu., 8:30-10:30. Mr. Tawney
133. COURSES IN JEWISH PHILOSOPHY GIVEN IN THE HEBREW UNION COLLEGE BY DR. NEUMARK AND DR. KOHLER.

PHYSICS

FOR GRADUATES AND UNDERGRADUATES

- 132b. PHILOSOPHY OF SCIENCE.—Tu., Th., 11:30-12:30. Mr. More
 119a. THEORY OF HEAT.—Tu., S., 10:30-12:00. Mr. More
 115b. THEORY OF LIGHT.—Tu., S., 10:30-12:00. Mr. More

NOTE.—The above courses may be counted towards fulfilling the requirements of a minor in physics. The courses listed below may be counted for either a major or a minor in physics.

108. ADVANCED EXPERIMENTAL PHYSICS.—Credit according to number of hours elected. Mr. Allen
 110. SEMINARY.—W., 4:00-6:00. Mr. More
 133a. DISCHARGE OF ELECTRICITY THROUGH GASES.—Twice weekly. Mr. Allen
 133b. DISCHARGE OF ELECTRICITY THROUGH GASES.—Twice weekly. Mr. Allen

FOR GRADUATES ONLY

107. LECTURES ON THEORETICAL PHYSICS.—Twice weekly. Mr. More
 125a. THEORETICAL MECHANICS.—See under Mathematics 116a. Mr. Slocum
 109. RESEARCH.—Those electing this course are supplied with all the apparatus needed, and with the assistance of the mechanician. Daily. Mr. More, Mr. Allen

PHYSIOLOGY

(THE JOSEPH EICHBERG PROFESSORSHIP)

107. RESEARCH.—Open to any qualified person after consultation with the head of the department. Dr. Fischer

POLITICAL SCIENCE

FOR GRADUATES AND UNDERGRADUATES

In courses open to both graduates and undergraduates, graduate students are expected to do a greater amount of reading than undergraduates, and such additional work as the instructor prescribes.

- 111a. MUNICIPAL GOVERNMENT.—*First semester*, M., W., F., 8:30-9:30.
Mr. Lowrie
- 111b. MUNICIPAL ADMINISTRATION.—*Second semester*, M., W., F., 8:30-9:30.
Mr. Lowrie
102. INTERNATIONAL LAW.—M., W., 11:30-12:30.
Mr. Lowrie
Prerequisite: Junior or Senior standing
109. EUROPEAN GOVERNMENTS.—*Second semester*, M., W., F., 9:30-10:30.
Mr. Gardner
Prerequisite: First semester of Course 1
117. CONSTITUTIONAL LAW.—*First semester*, M., W., F., 9:30-10:30.
Mr. Gardner
110. PROBLEMS OF NATIONAL ADMINISTRATION.—*Second semester*, Tu., Th., 9:30-10:30.
Mr. Gardner
Prerequisite: Course 1
112. WORLD POLITICS.—F., 11:30-12:30.
Mr. Lowrie
103. DEVELOPMENT OF POLITICAL THOUGHT.—*First semester*, Tu., Th., 1:00-2:00.
Mr. Gardner
Prerequisite: Junior or Senior standing
113. READING IN POLITICAL THOUGHT.—Two credits.
Mr. Gardner
Prerequisite: Course 103
125. SEMINAR.—M., 4:00-6:00. To be taken only with the permission of the instructor.
Mr. Lowrie
133. WORLD POLITICS.—Tu., 7:30-9:30.
Mr. Lowrie

PSYCHOLOGY

FOR GRADUATES AND UNDERGRADUATES

A theme and additional reading are required of all graduate students who enter courses open to undergraduates.

- 102a. EXPERIMENTAL PSYCHOLOGY.—M., W., F., 2:00-5:00.
Mr. Diserens
- 102b. EXPERIMENTAL PSYCHOLOGY.—M., W., F., 2:00-5:00.
Mr. Diserens
109. MENTAL AND PHYSICAL TESTS.—Laboratory methods. Two credits a semester. Tu., 3:00-5:00. Mr. Breese, Mr. Diserens
- 120a. PSYCHOLOGY OF PRIMITIVE PEOPLES.—S., 9:30-11:30. Mr. Talbert
- 120b. PSYCHOLOGY OF PRIMITIVE PEOPLES.—S., 9:30-11:30. Mr. Talbert

PRIMARILY FOR GRADUATES

103. RESEARCH.
Mr. Breese

ROMANCE LANGUAGES

FRENCH

FOR GRADUATES AND UNDERGRADUATES

Additional reading is required of graduates taking work in courses open to undergraduates also.

104. FRENCH DRAMA IN THE SEVENTEENTH CENTURY.—Tu., Th., 9:30-10:30. Mr. Ogden
105. FRENCH DRAMA IN THE NINETEENTH CENTURY.—W., F., 1:00-2:00. Mr. Passarelli
124. NINETEENTH CENTURY POETS.—Th., 4:00-6:00. Mr. Passarelli
126. DEVELOPMENT OF THE FRENCH DRAMA.—Tu., Th., 9:30-10:30. Mr. Ogden
112. OLD FRENCH.—Lectures and readings. Tu., 4:00-6:00. Mr. Hubert

FOR GRADUATES ONLY

117. OLD PROVENÇAL. Mr. Ogden

SPANISH

FOR GRADUATES AND UNDERGRADUATES

Additional reading is required of graduates taking work in courses open to undergraduates also.

108. CERVANTES (DON QUIXOTE) AND CALDERON.—Th., 4:00-6:00. Mr. Brown

ITALIAN

FOR GRADUATES AND UNDERGRADUATES

In the following courses additional reading is required of graduate students.

116. ITALIAN LITERATURE IN THE NINETEENTH CENTURY.—M., 3:00-5:00. Mr. Hubert

SOCIAL SCIENCE

FOR GRADUATES AND UNDERGRADUATES

In courses open to both graduates and undergraduates, graduate students will be required to do a greater amount of reading than undergraduates, and such other additional work as may be prescribed by the instructor.

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|------|---|---------------|
| 106. | SOCIAL PATHOLOGY.—M., W., 9:30-10:30. | Mr. Parker |
| 107. | PRINCIPLES OF SOCIAL RECONSTRUCTION.—Tu., Th., 10:30-11:30. | Mr. Parker |
| 108. | COMPARATIVE SOCIAL THEORIES.—M., W., 10:30-11:30. | Mr. Parker |
| 109. | SOCIAL PROBLEMS.—M., W., 11:30-12:30. | Mr. Parker |
| 111. | ORGANIZATIONS FOR SOCIAL RECONSTRUCTION.—M., W., 8:30-9:30. | Mr. Van Matre |
| 112. | PRINCIPLES OF CASE WORK.—Tu., Th., 8:30-9:30. | Mr. Van Matre |
| 120. | SEMINAR.—M., 1:00-3:00. | Mr. Parker |
| 121. | FIELD STUDIES.—Tu., Th., 11:30-12:30. | Mr. Van Matre |

ZOOLOGY

To pursue advanced courses in zoology, the student should have some training in physics and chemistry, and should be able to read French and German. Special facilities are afforded students pursuing courses of research.

REQUIREMENTS FOR DEGREES

To enter upon work for the degree of Master of Arts in zoology, students must have completed Courses 1, 2, 5, 17a, 18a, 13a, 14a, 19b, 20b, or their equivalents. (See Announcement of the College of Liberal Arts.) Courses under the heading "For Undergraduates and Graduates" may be counted as graduate subjects with full credit towards the degree of Master of Arts by students who have elected majors in other departments. The requirements for a higher degree, when zoology is chosen as a major subject, are adequately stated under the general requirements for degrees (pages 80-82).

FOR GRADUATES AND UNDERGRADUATES

- 110a. MICROSCOPICAL TECHNIQUE.—Tu., Th., F., 1:00-4:00. Mr. Wieman
- 110b. CYTOLOGY.—Tu., Th., F., 1:00-4:00. Mr. Wieman
129. ADVANCED ZOOLOGY.—Tu., Th., F., 1:00-4:00. Two or three credits. Mr. Wieman, Mr. Day

PRIMARILY FOR GRADUATES

131. RESEARCH. Mr. Wieman

McMICKEN COLLEGE OF LIBERAL ARTS

SCHEDULE OF ENTRANCE EXAMINATIONS

June 16 and September 8, 1919; January 12, 1920:

8:30-11:00.....	English.....	First 3 units
11:00-12:00.....	English.....	Fourth unit
1:00- 3:00.....	Physics	1 unit
3:00- 4:00.....	Solid Geometry	$\frac{1}{2}$ unit
4:00- 5:00.....	Physical Geography	$\frac{1}{2}$ unit

June 17 and September 9, 1919; January 13, 1920:

8:30-10:30.....	Latin	First and second units
10:30-12:00.....	Latin	Third and fourth units
1:00- 3:00.....	Chemistry	1 unit
3:00- 4:00.....	Astronomy	$\frac{1}{2}$ unit
4:00- 5:00.....	Civics.....	$\frac{1}{2}$ unit

June 18 and September 10, 1919; January 14, 1920:

8:30-10:30.....	French	1 and 2 units
10:30-12:00.....	French.....	3 and 4 units
1:00- 2:30.....	Plane Geometry	1 unit
2:30- 4:00.....	Algebra	First unit
4:00- 5:00.....	Advanced Algebra.....	$\frac{1}{2}$ or 1 unit additional

June 19 and September 11, 1919; January 15, 1920:

8:30- 9:30.....	Ancient History	$\frac{1}{2}$ or 1 unit
9:30-10:30.....	American History	$\frac{1}{2}$ or 1 unit
10:30-12:00.....	{ General or Medieval and Modern History }	1 unit
1:00- 3:00.....	Spanish	1 and 2 units
3:00- 5:00.....	Spanish	3 and 4 units

June 20 and September 12, 1919; January 16, 1920:

8:30-10:30.....	German	1 and 2 units
10:30-12:00.....	German	3 and 4 units
1:00- 3:00.....	{ Zoology	$\frac{1}{2}$ or 1 unit
	{ Physiology	$\frac{1}{2}$ or 1 unit
3:00- 5:00.....	Botany	$\frac{1}{2}$ or 1 unit

June 21 and September 13, 1919; January 17, 1920:

8:30-10:30.....	{ Greek	First and second units
	{ Bookkeeping	1 or 2 units
	{ English History	$\frac{1}{2}$ or 1 unit
	{ American History and Civics.....	1 unit
10:30-11:30.....	{ Greek	Third unit
	{ Stenography-Typewriting	1 unit
11:30-12:00.....	Economics	$\frac{1}{2}$ unit
1:00- 2:00.....	{ Trigonometry	$\frac{1}{2}$ or 1 unit
	{ Commercial Geography	$\frac{1}{2}$ unit
	{ Commercial Law	$\frac{1}{2}$ unit
3:00- 4:00.....	Commercial Arithmetic	1 unit
4:00- 5:00.....	{ Manual Training	1 to 3 units
	{ Drawing	1 unit
	{ Domestic Science	1 to 3 units

Students wishing examinations in subjects listed above must notify the Director of Admissions at least two weeks before the day on which the entrance examinations begin.

FACULTY AND INSTRUCTORS

CHARLES WILLIAM DABNEY, PH.D., LL.D.....	President of the University
JERMAIN GILDERSLEEVE PORTER, PH.D.....	Director of the Observatory and Professor of Astronomy
PHILIP VAN NESS MYERS, LL.D., L.H.D....	Honorary Lecturer in History
FREDERICK CHARLES HICKS, PH.D.....	Sinton Professor of Economics and Commerce
HARRIS HANCOCK, PH.D., SC.D.....	Professor of Mathematics
JOHN MILLER BURNAM, PH.D.....	Professor of Latin
MAX POLL, PH.D.....	Professor of the Germanic Languages
*MERRICK WHITCOMB, PH.D.....	Professor of History
LOUIS TRENCHARD MORE, PH.D.....	Professor of Physics
BURTIS BURR BREESE, PH.D.....	Professor of Psychology
STEPHEN ELMER SLOCUM, B.E., PH.D.....	Professor of Applied Mathematics
NEVIN M. FENNEMAN, PH.D.....	Professor of Geology and Geography
GUY ALLAN TAWNEY, PH.D.....	Professor of Philosophy
FRANK WADLEIGH CHANDLER, PH.D.....	Professor of English, Ropes Professor of Comparative Literature, and Dean of the College of Liberal Arts
PHILLIP OGDEN, PH.D.....	Professor of Romance Languages
HARRIS MILLER BENEDICT, PH.D.....	Professor of Botany
SELDEN GALE LOWRIE, PH.D.....	Professor of Political Science
WILLIAM JAMES BATTLE, PH.D.....	Professor of Greek
HARRY SHIPLEY FRY, PH.D.....	Professor of Chemistry and Director of the Chemical Laboratory
HARRY LEWIS WIEMAN, PH.D.....	Professor of Zoology
ORLAND R. SWEENEY, PH.D.....	Professor of Chemical Engineering
SAMUEL JAMES MCINTOSH ALLEN, PH.D....	Professor of Experimental Physics
CLAUDE M. LOTSPEICH, PH.D.....	Professor of Comparative Philology, Department of German
WHITELAW REID MORRISON, A.M., M.D.....	Professor of Hygiene and Physical Education
CLYDE WILLIAM PARK, A.M. . . .	Professor of English, College of Engineering and Commerce
ELMER CUMMINGS GRIFFITH, PH.D.....	Acting Professor of History
LOUIS BRAND, PH.D., E.E....	Professor of Mathematics, College of Engineer- ing and Commerce
†WILLIAM HAMMOND PARKER, PH.D.	Professor of Social Science
HENRY MAX GOETTSCH, PH.D.....	Associate Professor of Industrial Chemistry

*Absent on leave, 1919-1920

†Resigned

CHARLES NAPOLEON MOORE, PH.D.	Associate Professor of Mathematics
WILLIAM TUNSTALL SEMPLE, PH.D.	Associate Professor of Latin
CLARENCE DIMICK STEVENS, A.M.	Associate Professor of English
HENRY G. HARTMAN, PH.D.	Associate Professor of Philosophy
CLARENCE ORAN GARDNER, PH.D.	Associate Professor of Political Science
EARL FREDERICK FARNAU, PH.D.	Associate Professor of Organic Chemistry
RALPH EDWARD OESPER, PH.D.	Associate Professor of Analytical Chemistry
EDWARD S. SMITH, M.E., PH.D.	Associate Professor of Mathematics
CLARENCE JAMES FOREMAN, PH.D.	Associate Professor of Economics
JOSEPH HENRY KINDLE, A.M.	Associate Professor of Mathematics
BENJAMIN CARLTON VAN WYE, A.M.	Associate Professor of Public Speaking, Department of English
†BERTHA K. YOUNG, A.M.	Assistant Professor of English
ORVILLE TURNER WILSON, PH.D.	Assistant Professor of Botany
HENRY ROBINSON SHIPHERD, PH.D.	Assistant Professor of English
WALTER H. BUCHER, PH.D.	Assistant Professor of Geology
OTTO CHARLES VON SCHLICHTEN, A.B.	Assistant Professor of Geology
ERNEST LYNN TALBERT, PH.D.	Assistant Professor of Psychology, Director of Admissions, and Supervisor of the Evening Academic Courses
REGINALD CHARLES MCGRANE, PH.D.	Assistant Professor of History
HUBERTIS MAURICE CUMMINGS, PH.D.	Assistant Professor of English
FRED A. MOLBY, PH.D.	Assistant Professor of Physics
EDWARD C. DAY, PH.D.	Assistant Professor of Zoology
*STEPHEN J. FELTON, MET.E.	Assistant Professor of Metallurgy
MERTON JEROME HUBERT, A.M.	Assistant Professor of Romance Languages
LEONORA NEUFFER, PH.D.	Assistant Professor of Chemistry
WILLIAM A. CROWLEY, PH.D.	Assistant Professor of Philosophy
IRVING H. BROWN, A.M.	Assistant Professor of Romance Languages
SELBY FRAME VANCE, A.M., D.D., LL.D.	Lecturer on Biblical Literature
LOUBEN PATTEE, A.B.	Lecturer on the History of Art and Dean of Women
FREDERICK W. WEISSMANN, PH.C.	Supervisor of Special Lectures in Technical Chemistry
PLATT BISHOP EVENS	Mechanician and Instructor in Laboratory Arts
CORA M. BOX, A.M.	Instructor in Zoology
†ELEONORE CATHRINE NIPPERT, A.M.	Instructor in German

*Resigned

†Absent on leave, 1919-1920

HELEN A. STANLEY, A.M.	Instructor in English
MARJORIE HILLAS, A.M.	Instructor in Physical Education
OLIVER MUMFORD NIKOLOFF, A.B.	Instructor in Physical Education
LOUIS A. PASSARELLI, A.M.	Instructor in Romance Languages
*CHARLES ESTES WOOD, M.E.	Instructor in Metallurgy
E. LUCY BRAUN, PH.D.	Instructor in Botany
EDWARD A. EBERHARDT, A.M.	Instructor in Modern Languages
*CLIFFORD JAY ROLLE, PH.D.	Instructor in Chemistry
FLOYD ELDON BEGHEL, A.M.	Instructor in Botany
BOYD B. CHAMBERS, A.B.	Director of Athletics
DOROTHY DUKE, B.S.	Instructor in Physical Education
MEYER SALKOVER, A.M.	Instructor in Mathematics
SOPHIE W. BRUNHOFF, A.B.	Instructor in Physical Education
WILLARD A. KINNE, A.B.	Instructor in Romance Languages
WALTER C. PHILLIPS, PH.D.	Instructor in English
RAYMOND CHAMBERS, A.M.	Instructor in History
FRANCESCA R. NOONAN, B.S.	Instructor in German
EDGAR P. BENGERT, A.M.	Instructor in English
FRANK RAWLEY BYERS, A.B.	Instructor in English
GEORGE E. DAVIS, A.M.	Instructor in Mathematics
JOSEPH O. O'CONNER	Mechanician and Instructor in Chemistry
FERN SHERMAN	Instructor in Physical Education
ALBERT JOYCE RIKER, A.B.	Instructor in Botany
*LAURENCE HUNTINGTON VAN MATRE	Instructor in Social Science
FRED ALLEN CONRAD, A.M.	Instructor in Social Science
PETER SCHERRER	Instructor in Lecture Demonstrations and Chemical Supply Agent

*Resigned

ADMISSION

REGULAR STUDENTS

REQUIREMENTS FOR ADMISSION

Candidates for admission as undergraduates must be at least sixteen years of age. A student must offer fifteen units, no conditions being allowed. These units may be secured by entrance examination or by certificate from an accredited secondary school from which the student has graduated with a grade in each academic subject of at least seventy percent.

DEFINITION OF A UNIT

A unit represents a full year's study of a subject. The recitation time devoted to each unit-subject should be equal to 120 sixty-minute periods. In reckoning units, a double allowance of time should be given to laboratory, drawing-room, field, or shop work. Ordinarily, in order to fulfill this requirement, a study must be pursued for five periods a week throughout an academic year; but in schools where the school year is long, for example, 40 weeks, and the recitation periods are not less than 45 minutes in length, four periods a week for a year may fulfill the time requirements for a unit.

DISTRIBUTION OF UNITS

The fifteen units must be distributed in the following manner:

Group 1

ENGLISH—Three units

MATHEMATICS—One unit in algebra and one unit in plane geometry

HISTORY—One unit

LANGUAGE—Three units, from the five languages: Latin, Greek, French, German, Spanish. Two units must be in the same language. Candidates who intend to pursue the study of Latin in the University must present four units in Latin.

Group 2

In addition to these specific requirements the candidate must offer three units in English, mathematics, foreign language, history, physics, chemistry, zoology, physiology, botany, physical geography, economics, and astronomy, under the regulations as to the maximum and minimum of the work to be completed in each subject described below.

Group 3

The remaining three units shall constitute a "free margin;" i.e., the University will accept for admission any three units which the secondary schools themselves credit towards graduation and which are given in conformity to the standards adopted by the North Central Association of Colleges and Secondary Schools. No fraction of a unit other than one half shall be recognized.

UNITS ACCEPTED FOR ADMISSION

	Minimum	Maximum
English	3 required	4
Latin	Three units required, two of which must be in one language	or 2 or 3 or 4
Greek .....		.. or 2 or 3
French		or 2 or 3 or 4
German		or 2 or 3 or 4
Spanish		or 2 or 3 or 4
General or Medieval and Modern	One unit required	
History		1
Ancient		1
English		1
American		1
American and Civics		1
Algebra	1 required	or 1½ or 2
Geometry, Plane	1 required	1
Geometry, Solid	½	½
Trigonometry	½	1
Physics	1	1
Chemistry	1	1
*Zoology	1	1
*Botany	1	1
Economics	½	½
Physical Geography	½	1
Physiology	½	1
Astronomy	½	½
Vocational and Other Subjects:		
Commercial Branches, Do-	½	3
mestic Science, Manual		
Training, and other sub-		
jects accepted for gradu-		
ation by high schools		

*One half unit will be allowed in zoology and one half unit in botany when these two subjects are presented together as one unit in the same year.

ADMISSION BY EXAMINATION

Examinations for admission in 1919 were held on June 16, 17, 18, 19, 20, 21; and on September 8, 9, 10, 11, 12, 13. In 1920 they were held on January 12, 13, 14, 15, 16, 17.

Students who desire to take these examinations must obtain permission from the Director of Admissions at least two weeks before the day on which examinations begin. Some of the examinations may be taken in the spring and the remainder in the fall, if so desired. Students who apply for entrance examinations at times other than the days specified will be charged a fee of \$5. Extra examinations, however, will not be furnished except for good and sufficient reasons.

EXAMINATIONS FOR CANDIDATES WITHOUT GRADUATION CERTIFICATES. A candidate for admission to the University, coming from one of the accredited schools, who is not a graduate of such school, will not be admitted to the entrance examinations within one year after leaving such preparatory school, unless recommended for examination by the principal of the school from which he comes.

Students intending to take the entrance examinations should consult the statement of the entrance requirements, as printed on a preceding page, and arrange to take their examinations

(a) in the fixed requirements, and

(b) in enough additional subjects to make a total of fifteen units.

Specimen entrance examination questions will be furnished free of charge on application to the Director of Admissions.

ADMISSION ON CERTIFICATE FROM ACCREDITED
SCHOOLS

Graduates from secondary schools in the vicinity of Cincinnati which have been inspected and approved by university examiners are accepted on certificate.*

In addition, graduates of the following groups of institutions may be admitted on certificate under the provisions described below:

1. Graduates of secondary schools contained in the list of schools approved by the several accrediting associations or by private institutions

*Superintendents or principals who may desire to have their schools accredited by the University should address the Director of School Affiliation.

of higher education as published in the current bulletins on accredited schools in the United States (United States Bureau of Education) may be admitted on certificate, provided the requirements of the University are met.

2. Graduates of first-grade American and foreign high schools which have been properly accredited by a recognized standardizing agency, such as the state superintendent or state university.

In order to qualify as regular students, graduates of secondary schools not contained in the lists above mentioned and not included in the number of schools inspected and approved by this University, shall be required to take entrance examinations.

Work of satisfactory grade (not lower than 70 percent) will be accepted from graduates of the University's accredited schools in lieu of the entrance examinations upon the presentation of the proper certificate, signed by the principal of the school, certifying to the work of the candidate. All certificates presented for admission must specify the work actually done, the time devoted to each subject, and the grade received in each course. Blank forms will be furnished upon application to the Director of Admissions.

The certificate, properly made out, should be sent to the Director of Admissions, University of Cincinnati, Cincinnati, Ohio, as soon as possible after graduation, and at least five days before the first day of registration. Upon its receipt, the Director of Admissions will pass upon the application, and if it is satisfactory, will send a card of admission, which must be presented to the Registrar at the opening of the session. If the certificate is not satisfactory, the candidate will be informed, so that he may prepare himself for the entrance examinations.

A candidate from an accredited school who is not a graduate of such school will not be admitted upon certificate, but must enter by examination in accordance with the rule given above under the heading "Admission by Examination."

SURPLUS MATRICULATION CREDIT

Students who bring from accredited preparatory schools credits in given subjects in excess of the requirements for matriculation may receive advanced standing in the University for this work if they make a thoroughly satisfactory record (at least "C") in higher work in the same subjects, *taken in the University in the Freshman year.*

The preparatory subjects in which university credits may be acquired are French, German, Greek, and Spanish.

Application for advanced standing must be made at the time of registration.

ADMISSION FROM OTHER COLLEGES AND UNIVERSITIES

An undergraduate of a college or university, to enter the McMicken College of Liberal Arts or the College for Teachers, must present to the Director of Admissions satisfactory evidence that he has done a sufficient amount of preparatory work to meet the regular entrance requirements, together with a certificate of honorable dismissal from the college or university last attended. He will be given credit for work of university grade in accordance with the provision for "Admission to Advanced Standing."

ADMISSION TO ADVANCED STANDING

Students may be admitted to advanced standing upon presentation of a certificate from a college or junior college of approved standing. All applications for advanced standing must be made within three weeks after matriculation to the Director of Admissions, and must be accompanied by a statement of the work done, signed by the proper officials of the college from which the applicant comes, and by a marked copy of the catalogue or by a written description in detail of the courses for which advanced credits are desired. In courses where notebooks or drawings, or both, are required, these also must be presented. The students applying for advanced standing must first have satisfied the entrance requirements for regular students.

The total number of credits which are accepted by the College of Liberal Arts for work done in a single summer session of another college is limited to six from any institution of approved standards conducting courses six weeks in duration, and to eight from any institution of approved standards conducting courses eight or more weeks in duration.*

EXAMINATIONS FOR ADVANCED STANDING

Examinations for advanced standing are held: (a) on registration days; (b) within the first two weeks of each semester; (c) within the last two weeks of each semester, i.e., during the regular semester examination period.

Students should consult the heads of departments for definite dates within the above mentioned periods.

Several departments specify dates upon which examinations for advanced standing are held, namely:

Chemistry.—On the Saturday preceding the opening of the first semester, and on the first day of the regularly scheduled semester examination period.

English.—During the first three days of the regularly scheduled semester examination period.

*For work done in the Summer School of the University of Chicago, since such work is considered part of the regular session, hour for hour credit is allowed.

Zoology.—On the Friday preceding the opening of the first semester and on the second day of the regularly scheduled semester examination period.

SPECIAL STUDENTS

Persons at least twenty years of age and qualified to do university work may be admitted as special students to lectures and laboratory courses in the Colleges of Liberal Arts and Engineering and Commerce and in the College for Teachers. They are required to furnish documentary evidence to the Director of Admissions and to the Dean of the College of Engineering and Commerce, respectively, and to satisfy the heads of the departments concerned of their ability to carry on successfully the courses which they desire to enter.

Before any special student may become a candidate for a degree he must satisfy the entrance requirements. All special students are amenable to the same regulations as apply to regular students in matters of examination, probation, discipline, etc. (See probation rule, page 119.)

SCHOLARSHIPS AND PRIZES

FRESHMAN

THE JULIUS FLEISCHMANN SCHOLARSHIPS.—Thirteen scholarships of \$75 each were offered for eight successive years (1909-1915) by Mr. Julius Fleischmann. Ten scholarships of \$100 each (tuition for non-residents increased from \$75 to \$100) were offered for the years 1917-1918, 1918-1919, and 1919-1920. They cover the first year's tuition, in the College of Liberal Arts, of ten non-residents who are members of the graduating classes of the Cincinnati high schools and of the accredited schools outside of Cincinnati.

THE THOMS HONORARY SCHOLARSHIPS are awarded annually to the six Freshmen who have the best scholastic records.

SOPHOMORE

THE THOMS HONORARY SCHOLARSHIPS are awarded annually to the six Sophomores who have the best scholastic records.

JUNIOR

THE McMICKEN HONORARY SCHOLARSHIPS are awarded annually to the five Juniors who have the best scholastic standing, according to the records in the Registrar's office.

SENIOR

THE JONES PRIZES.—The first Jones Prize of \$40 was founded in 1892 by the Honorable Frank J. Jones, and is awarded annually to that member of the Senior class in the College of Liberal Arts who writes and pronounces the best English oration. The subjects are chosen by the Dean and the Chairman of the Board of Directors. A committee consisting of three citizens of Cincinnati is appointed by the Chairman of the Board of Directors to judge the contest. The second Jones Prize of \$20 was founded by Mr. Jones in 1901. It is awarded to that member of the Senior class whose oration is judged by the committee to be second in merit. These prizes are permanently endowed.

THE EDWARD MILES BROWN PRIZE FOR EXCELLENCE IN ENGLISH, valued at \$50, was established in 1908, by a provision of the will of the late Professor Edward Miles Brown. It is awarded annually to that member of the Senior class who has attained the highest excellence in English during his four years' undergraduate course.

THE HENRY HOCHSTETTER PRIZE IN CHEMISTRY, of the value of \$40, was established in 1909 by Mr. Robert Hilton, of the class of 1895, in memory of his brother, Henry Hochstetter. It is to be awarded annually for the best graduating thesis in chemistry, and is open to students of both the liberal arts and engineering. The successful candidate is nominated by a committee consisting of the head of the Department of Chemistry and two members of the Cincinnati Section of the American Chemical Society.

THE ROBERT PATTERSON MCKIBBIN MEMORIAL PRIZE, a gold medal of the value of \$25, was established in 1911 by the Reverend William McKibbin and family, in memory of their son Robert Patterson McKibbin, who died in 1910, while a member of the Junior class of the University. This prize aims to hold up before the male students of the University the ideals of manhood. It is awarded to that young man of the Senior class who, in the judgment of the faculty, is the best embodiment of these ideals.

THE CINCINNATI LAW SCHOOL SCHOLARSHIP is open to Seniors who intend to enter the College of Law the year after graduation.

GENERAL

THE CORNELIUS GEORGE COMEGYS SCHOLARSHIP, with an income of \$50, was founded in 1899 by the Old Endowment Fund Association, which was composed of the alumni of the University. This scholarship is awarded annually to a meritorious undergraduate.

THE FUND OF THE CINCINNATI SECTION OF THE AMERICAN CHEMICAL SOCIETY, a loan fund of \$2,000, has been established by the Cincinnati Section of the American Chemical Society to aid worthy and deserving students in the Department of Chemistry to complete courses in chemistry and chemical engineering. Students who apply for this fund must have completed one year of work in the University and be recommended to the trustees of the Cincinnati Section of the American Chemical Society by a committee appointed by the faculty of the Department of Chemistry of the University or by the Board of Directors of the University, or by both. Both liberal arts and engineering students are eligible to apply.

THE STRAUS PRIZE.—Robert Lee Straus, a graduate of the College of Liberal Arts in the class of 1917, established in that year an annual prize, of the value of \$20, to be awarded to the undergraduate who writes the best original composition in verse during the college session. On or before the first of each May, poems offered in competition for this prize should be presented to the Professor of English, who will appoint two other members of the Department of English to act with him in deciding the award.

THE TAFT SCHOLARSHIP, of \$100, was established in May, 1914, with the proceeds of the sale of the press equipment, which was originally donated by Mr. Charles P. Taft. It is awarded to a worthy student selected by the President of the University.

THE SCHOLARSHIPS FOR FRENCH WOMEN, free tuition and fees for three French women in the College of Liberal Arts, the College for Teachers, or the School of Nursing and Health, were offered in 1919.

RHODES SCHOLARSHIPS.—Men who have completed their Sophomore year at the University of Cincinnati are eligible to compete for the Cecil Rhodes Scholarships, tenable for three years at Oxford University, England, with a stipend of \$1,500 each year. These scholarships are awarded on the combined basis of character, scholarship, athletics, and leadership in extra-curriculum activities. Further information may be obtained from any member of the Rhodes Scholarship Committee of Selection for Ohio: Chairman, President W. O. Thompson, Ohio State University, Columbus, Ohio; Professor B. E. Schmitt, Western Reserve University, Cleveland, Ohio; Cary R. Alburn, Esq., Attorney, Garfield Bank Building, Cleveland, Ohio; Secretary, Professor Leigh Alexander, Oberlin College, Oberlin, Ohio.

For the fellowships, scholarships, and prizes of the various colleges, consult their several announcements.

REGISTRATION

Freshmen and Sophomores registered in 1919 with the Student Advisory Committee as follows:

FRESHMEN: Thursday, September 18, 9:00-12:00 A.M. or 1:00-4:00 P.M. Friday, September 19, 9:00-12:00 A.M. or 1:00-4:00 P.M.

SOPHOMORES: Friday, September 19, 9:00-12:00 A.M. or 1:00-4:00 P.M.

Upper classmen registered with the Advisers on September 18, 19, or 20.

Special students registered on Saturday, September 20.

In 1920, all students registered on Friday, February 6.

Students registering on any other days than those designated above were required to pay a registration fee of \$1.

No person is admitted to any course after the beginning of the semester, unless a good and sufficient excuse for not entering at the opening of the semester be presented to the Dean; and *in no event is any person permitted to enter the work of any semester after the close of the second week of that semester.* In accordance with this regulation, no person was admitted for the first semester of 1919-1920 after 12:30 P.M. on Saturday, October 4, 1919; for the second semester, no one was admitted after 12:30 P.M. on Saturday, February 21, 1920.

ADVISORY SYSTEM FOR THE ELECTION
OF STUDIES

To the Advisory Committee for the Election of Studies is confided the duty of assisting Freshmen and Sophomores in registering for the subjects best adapted to their aims and abilities and of counselling them in all matters affecting scholarship.

Freshman and Sophomore students are required to conform to the following regulations.

FOR FRESHMEN

1. Each Freshman at the first semester registration days is assigned by the Chairman to a member of the committee, who acts as his temporary Adviser, and assists him in registering.

Before the mid-term examinations of the first semester a permanent Adviser for the Freshman and Sophomore years is assigned by the Chairman to each student. The official list is announced on the Liberal Arts bulletin board.

2. At the second semester registration day, each Freshman registers with his own Adviser.

3. On or before May 1 of the Freshman year, each student goes to his Adviser and, in consultation with him, chooses his studies for the Sophomore year. The schedule of studies must then be taken to the Chairman for approval.

FOR SOPHOMORES

1. In the Sophomore year, each student on the first semester registration days must go to his own Adviser and register in accordance with the schedule of studies chosen in the manner just outlined. If, in the meantime, any changes have been decided upon, he must consult his Adviser and obtain the approval of the Chairman before registering.

2. At the second semester registration day each Sophomore registers with his own Adviser.

3. On or before May 1, each Sophomore must go to his Adviser and, after consultation with him and with the representative of any department concerned, he must choose his major course of studies for the Junior year.

4. No Sophomore is allowed to register for major work unless he has fulfilled at least four fifths of the required work of the Freshman and Sophomore years, and has obtained from the Chairman a certificate to that effect.

MAJOR ADVISERS

Every student in the Junior and Senior years registers with the head of the department in which he elects his major, and this person acts through his Junior and Senior years as his Adviser.

No Major Adviser will receive for registration towards a major any student who does not present a certificate showing the completion of the necessary requirements of the Freshman and Sophomore years, accompanied by the properly filled out record card.

DIRECTIONS FOR REGISTRATION

FRESHMEN

1. Take to the Chairman of the Advisory Committee for the Election of Studies the certificate of admission received from the Director of Admissions, and receive from this Chairman an appointment to a temporary Adviser and also the necessary course and schedule cards. Go to this Adviser and on consultation fill out the course card in accordance with the rules and regulations of the Advisory Committee. (See p. 115.)

2. Take the certificate of admission, the registration blank, and the course card to the Registrar.

3. Pay the library fee (also tuition and laboratory fees when such are required) to the Clerk of the Board.
4. Receive from the Clerk of the Board a receipt for matriculation.
5. File the course card received from the Advisory Committee in a box prepared for that purpose in the Registrar's office.

SOPHOMORES

Every Sophomore must register with his own Adviser in accordance with the rules and regulations of the Advisory Committee. (See page 116.) He must then fill out the registration blank and present that and his course card to the Registrar, who will give in exchange a card of matriculation fees, which must in turn be presented to the Clerk.

UPPER CLASSMEN

Every upper classman must fill out his course card under the direction of his Adviser. (See page 116.) He must then fill out the registration blank and present that and his course card to the Registrar, who will give in exchange a card of matriculation fees, which must in turn be presented to the Clerk.

No upper classman is received for registration by a Major Adviser without a signed certificate of the completion of the necessary requirements of the Freshman and Sophomore years, accompanied by the properly filled out record card.

SPECIAL REGULATIONS

All students must have their registration cards approved at the September and February registration periods,—Freshmen and Sophomores by their Advisers, Juniors and Seniors by their Major Advisers (the heads of the departments in which they are majoring), and special and irregular students by the Dean of the College of Liberal Arts or the Dean of Women.

On the course card each course must be designated by the department and the number of the course, special title, and the number of hours credit, e. g.:

English 1: Rhetoric and Composition.....	3
Mathematics 1: Algebra, Trigonometry.....	3

In filling out election blanks special care should be taken to note the advertised hours of courses, in order that conflicts may be avoided.

All students who expect to become teachers should confer with the Dean of the College for Teachers before filling out their course cards.

No change is permitted on the course card after the expiration of three days from the last day of registration.

All course and schedule cards must be filled out and deposited in the boxes provided for that purpose before 4:00 P.M. on the last registration day.

GENERAL REGULATIONS

Each student, at the beginning of the year, shall leave his local address at the office of the Registrar, and shall promptly report all subsequent changes of address.

UNIT OF INSTRUCTION

The unit of instruction is one hour a week for one semester. Two and one half hours of actual work in the laboratory, shop, or drafting-room are considered equivalent to one recitation hour and the preparation therefor. Credit is given for the number of hours officially published with the course, and for no more. University work not regularly registered is forbidden.

ABSENCES

All absences of students, from any cause whatsoever, are recorded in the Registrar's office. No absences are excusable except those incurred by students representing the University in some public exercise outside of the city. Application for these excuses must be made to the Dean in advance. Absences because of illness are not excused.

Excessive absence diminishes the value of the work, and in recognition of this the following regulation has been passed:

- 1-29 cuts in one semester—no penalty
- 30-44 cuts in one semester—2 credits extra for graduation
- 45-59 cuts in one semester—3 credits extra for graduation
- 60-74 cuts in one semester—4 credits extra for graduation
- 75-89 cuts in one semester—5 credits extra for graduation

EXAMINATIONS AND GRADES

The scale of marks for recording grades is as follows: A, 90-100; B, 80-89; C, 70-79; D, 60-69, passed; E, 50-59, conditioned; F, 0-49, failed.

In the case of mid-term reports, students are graded as follows: P, passed with the grade of "C" or above; D, poor; E, conditioned; ab, absent; W, withdrawn.

No student may be excused from a final examination because of excellence in class work.

Students who are conditioned are given an opportunity to obtain credit by a special re-examination, upon payment of the fee for supplemental examination. Such an examination is not given before the period of the next regular semester or mid-semester examinations, with this exception, that a student conditioned at the end of the second semester may be examined for the removal of a condition during the opening week of the next semester following, provided he has taken work during the intervening vacation under the direction of the head of the department in

which the condition was given. The standing of "D" is the highest mark which any student may receive as the result of re-examination for the removal of a condition. Any condition that is not removed within one year lapses into a failure.

Students who have been absent from the semester examinations may, at the discretion of the Dean and the heads of the departments concerned, be admitted to subsequent examinations in such work, upon the payment of a fee for supplemental examinations. A standing of "D" is the highest mark which any student may receive as the result of an examination for the removal of "absent," except when the absence is because of prolonged and serious illness, or unavoidable detention, to be determined by the Dean, in which case the student may receive the grade rightly earned. Unexcused absence from a regular examination is construed as a failure therein.

PROBATION

A student in the College of Liberal Arts who receives a grade below "D" in one half of his work at the mid-term, or at the end of any semester, is put upon probation with restricted work for the next half semester of college work. Such probation cannot be removed until the student has obtained a passing grade in all subjects that he is permitted to carry. If a student so placed on probation fails to secure this passing grade after two successive semestral periods, he ceases to be a member of the University. Special students, however, who take six hours of work or less, and make a grade below "D" in one half of their work at the end of the first semester, may be allowed to continue without probation until the close of the year.

DEGREES

Candidates for degrees must be present on commencement day in order to receive their diplomas. Degrees are not conferred *in absentia*, except by special permission from the President.

WITHDRAWAL

In case a student withdraws from the University during any semester, credit is not given for any of the work elected for that semester.

Students wishing to discontinue courses they have elected must secure permission from the Dean of Liberal Arts or the Dean of Women, and from the instructors in charge of the courses to be dropped.

HONORABLE DISMISSAL

It is required as a condition of honorable dismissal that every student who wishes to withdraw from the University shall submit to the Registrar a written request to that effect.

REGULAR PROGRAM OF THE COURSE IN ARTS

The degree of Bachelor of Arts is the only degree conferred upon graduates of the College of Liberal Arts.

One credit in the scale of University work is a subject taken for one period a week for one semester. In all laboratory courses, two and one half hours in the laboratory are considered equivalent to one recitation hour and the preparation therefor. Students who have satisfied the requirements for admission, but who take less than twelve hours a week, are called "irregular students," and they must pay a tuition fee in every instance. (See "Fees.")

The last year of work required for the degree of Bachelor of Arts must be done in residence at the University of Cincinnati. But any student who has already spent at least three years in residence at the University may, during his last year of work for the degree of Bachelor of Arts, take not more than six hours of such work elsewhere, provided the courses and the institution so attended be approved beforehand by the University Committee on Advanced Standing and by the heads of the departments in which the student proposes to pursue such courses.

All students who are candidates for the degree of Bachelor of Arts must fulfill the following requirements:

Each student must obtain 124 credits, of which 4 shall be in hygiene. Of these credits, 60 must be taken in prescribed subjects, and 30 under the direction of the student's Adviser in the major group of studies. The remainder may be freely elected. No student, however, may count towards his 124 credits for graduation more than 6 credit hours of work marked "D," or "poor," in any one semester. But this restriction shall not operate to prevent his counting courses so marked towards the completion of his prescribed work.

In addition to the 124 credits each student shall take two years of gymnasium work.

Each candidate for the A. B. degree must file in the Registrar's office before March 1 of his Senior year a formal application for his degree.

If a Senior fails to make this application, the University will not be responsible for his graduation.

PRESCRIBED SUBJECTS FOR LOWER CLASSMEN

English	10 credits
Foreign languages	12 credits
*Laboratory sciences	10 credits
History, economics, political science, social science.....	12 credits
Mathematics, philosophy, psychology	12 credits
Hygiene.....	4 credits

The above subjects must be completed before the beginning of the Junior year, except that a Sophomore, with the permission of the Advisory Committee and the approval of the Dean, may postpone the performance of not more than 12 credit hours of prescribed work (one fifth of the total amount) to the Junior year, but only in so far as the prescribed work conflicts with the continuity of studies leading towards the fulfillment of a major.

SUBJECTS IN MAJOR GROUPS FOR UPPER CLASSMEN

- I. Greek, Latin, English, German, French, Italian, Spanish
- II. Physics, chemistry, zoology, botany, geology
- III. History, economics, political science, social science
- IV. Mathematics, philosophy, psychology, astronomy

At the end of the Sophomore year, or at the beginning of the Junior year, each student shall designate one of the above groups from which he must select his major subject. Thereafter, the head of the department in which that subject lies acts as his Adviser. For graduation, at least 18 credits must be secured in this major subject, in addition to those required for the Freshman and Sophomore years; and 12 more credits must be secured in subjects in the same group or in allied subjects specified by the Adviser.

The requirements stated above are illustrated in detail in the following diagrams.

*The requirement of ten hours in a science shall be construed to mean one year of consecutive work in a single science, except in the case of students enrolled in the evening sessions of the College of Liberal Arts, in which instances two sciences may be offered.

OUTLINE OF STUDIES IN THE COLLEGE OF LIBERAL ARTS

A. B. DEGREE

124 ACADEMIC CREDITS + TWO YEARS OF GYMNASIUM

60 Required			64 Elective		
			30 Directed		
			34 Free		
			From any subject of the 4 years with whole or re- duced credits		

FRESHMAN REQUIREMENTS

Prescribed Subjects	Credit Hours a Week per Sem.	Special Regulations
English	3	Every Freshman must take English 1.
Foreign Language *	3	
Science or Mathematics ...	5 or 3	
History, Economics, or Mathematics	3	If a student elects mathematics in place of science, he must elect also either history or economics.
Hygiene 3	1	
Total Prescribed Hours	15 or 13	In addition to hygiene, every Freshman must take gymnasium two hours a week.

*Any Freshman desiring to major in an ancient language and to take one other foreign language may postpone any of the Freshman regular work, except English 1, subject to the approval of the Dean.

COURSES OPEN TO FRESHMEN

Subjects	Courses, Prescribed and Elective	Credit Hours a Week per Sem.
English	English 1, 5	3
	English 3, 9, 18, 25, 48	2
Foreign Language	*French 1 (beginners) 3 French 2 (after 2 yrs. high school French) 3 French 3 (by permission) 2 French 5 (after 2 yrs. high school French) 2 French 11 (after 4 yrs. high school French) 3 French 20 (for pre-medical students) 2 *German 1 (beginners) 3 German 2 (after 2 yrs. high school Ger.) 2 German 3, 20 (after 2 yrs. high school Ger.) ... 3 German 4 (after 4 yrs. high school Ger.) 3 German 20 (for pre-medical students) 2 German 21 (after 4 yrs. high school Ger.) 2 *Greek 9 (beginners) 3 Greek 15 (after 2 yrs. high school Greek) 3 Greek 1 (after 3 yrs. high school Greek) 3 Italian 7 (beginners) 3 Latin 1 (after 4 yrs. high school Latin) 3 *Spanish 6 (beginners) 3 Spanish 9 (after 2 yrs. high school Spanish) ... 3 Spanish 14 (after 4 yrs. high school Spanish) .. 3 Spanish 18 (after 2 yrs. high school Spanish) .. 2	
Natural Science	Astronomy 1b 2 Botany 1 and 2, 3 and 4 5 Chemistry 1a and 2a, 3b and 4b 5 Geology 1 5 Physics 26a and 2a, 27b and 22b 5 Zoology 1 and 2 5	
Mathematics	Mathematics 1, 2, 3, 4	3
History	History 1, 13, 15, 61..... 3 History 29..... 2	
Economics	Economics 1 3 Economics 2 2	
Hygiene and Physical Education..... }	Hygiene 3	1
Biblical Literature	Biblical Literature 10a and 10b	2

SOPHOMORE REQUIREMENTS

Completion of the prescribed work (including 2 hours a week of gymnasium), except in so far as such work may be deferred to the Junior year by special permission, as provided above.

JUNIOR REQUIREMENTS

Completion of such prescribed work as may have been deferred from the Sophomore year, and the election and pursuit of major work.

*Seniors who take courses starred with an asterisk will receive but half credit for the work.

SENIOR REQUIREMENTS

Completion of 124 credits, including the fulfillment of the requirement of 30 credits for a major.

FREE ELECTIVES

At any time during his four years of residence a student may elect any courses then open to him, provided that such electives do not conflict with the performance either of his prescribed work or of his major work.

A Senior electing courses designed primarily for Freshmen receives for the same only half credit. This ruling applies to first-year French, German, Greek, and Spanish.

SPECIAL ARRANGEMENTS

CREDIT FOR HEBREW TAKEN IN THE HEBREW UNION
COLLEGE

Arrangements have been made with the Hebrew Union College whereby students of that institution who are pursuing a course in the University of Cincinnati may be allowed to count work in Hebrew taken in that institution for the degree of Bachelor of Arts, to the amount of two hours a week throughout the Freshman and Sophomore years, and three hours a week throughout the Junior and Senior years, provided such work is regularly entered upon the election schedules of the University. For description of courses see the announcement of the Hebrew Union College.

CREDIT FOR WORK DONE IN THE LANE THEOLOGICAL
SEMINARY

Approved work in the Lane Theological Seminary may be counted towards the Bachelor of Arts degree to the extent of 26 credits, provided it is regularly entered on the election schedule of the University. The courses that could be so counted were for the session 1919-1920:

Hebrew and Old Testament Literature 1, Elementary Hebrew (7 credits); 3, Old Testament History (2 credits); 5, the Psalms (2 credits); 6, the Prophets (2 credits); 7, Amos, Hosea, Micah (2 credits); 8, Isaiah (2 credits); 12, Job (in conjunction with New Testament 18, 3 credits). New Testament 18, the Revelation of John (in conjunction with Hebrew 12, 3 credits). Church History 1, Ancient and Medieval History (4 credits); 2, Reformation History (4 credits); 3, Modern History (4 credits).

CREDIT FOR WORK DONE IN THE ART ACADEMY OF
CINCINNATI

By an arrangement with the Art Academy of Cincinnati, University of Cincinnati students may elect, at the academy, from the courses in drawing, modeling, and carving, not more than six hours' work in any one semester, and receive credit therefor on the books of the University, provided these courses have been duly entered on the election blank, and the proper certificate from the Director of the Art Academy is presented on their satisfactory completion. Not more than twelve hours of work in the Art Academy are credited for the degree of Bachelor of Arts. For description of courses, see announcement of the Art Academy.

MAXIMUM CREDIT HOURS A WEEK

FRESHMEN —Regular, 17 hours, plus Gymnasium
Hebrew Union, 14 hours, plus Gymnasium, plus 2 hours Hebrew

SOPHOMORES—Regular, 18 hours, plus Gymnasium
Hebrew Union, 14 hours, plus Gymnasium, plus 2 hours Hebrew

JUNIORS —Regular, 18 hours
Hebrew Union, 12 hours, plus 3 hours Hebrew
College of Law, 12-14 hours, plus 4-6 hours Law

SENIORS —Regular, 18 hours
Hebrew Union, 12 hours, plus 3 hours Hebrew
*College of Law, 12 hours, plus 7-9 hours Law
*College of Law (students with no Law in Junior year)
13 hours Law

Any day student wishing to elect evening courses in addition to his day schedule must secure permission from his Adviser. In every case the Adviser, in estimating the total number of hours to be carried by the student, will include in this total the number of hours elected in the evening.

Maximum	L.	A.	credits allowed for work in	College of Law	26
"	"	"	"	"	" Hebrew Union College . . 20
"	"	"	"	"	" †Lane Seminary 26
"	"	"	"	"	" Art Academy 12

*Students taking the Combined Liberal Arts and Legal Program, described on p. 129.

†No Lane Seminary student taking a full course at Lane may register for more than 4 hours in the College of Liberal Arts.

SPECIAL PROGRAMS IN ARTS PREREQUISITE TO OTHER COURSES

PRE-TEACHING PROGRAM

Four-year curricula are offered to prospective teachers in elementary schools, leading to the degree of Bachelor of Science, conferred upon recommendation of the faculty of the College for Teachers.

During the first two years, students matriculated in such curricula are registered in, and are under the jurisdiction of, the McMicken College of Liberal Arts. During the last two years such students are registered in, and are under the jurisdiction of, the College for Teachers.

The standard of admission to such four-year curricula is the same as that of admission to the McMicken College of Liberal Arts.

PREREQUISITES.—The following must have been included in the subjects taken by the student in the last two years of the high school course or in the first two years of the college course. If taken in high school the subject must have been pursued not less than four periods a week for a year; if in college, not less than three periods a week for a year.

English.—Two or three college courses counting not less than ten college credit hours, in addition to English I.

History Civics.—A year's course in each of three of the following six fields: ancient history, medieval history, modern history, English history, American history or American history with civics, civics for teachers in the College for Teachers.

Not less than two of the foregoing courses shall be taken in college, and one course must be the course in civics for teachers in the case of all students who have not taken the fourth-year high school course in American history with civics. A student who has taken college courses in two of the specified fields may offer for the third field a course taken in the first or second year of the high school.

Science.—A year's course in each of the following three fields is strongly recommended: physical science (physics or chemistry), biological science (botany, zoology, or general biology), earth science (geology or geography).

The requirement in science to be taken in college, however, may be satisfied in one of the following three ways: (1) by taking three-hour courses in two fields; or (2) by taking a three-hour course in one field for a year and a five-hour course in another field for a semester; or (3) by taking a five-hour course in one field.

Psychology.—A three-hour course for a year in the subject is required and may not be taken earlier than the Sophomore year of the college.

DISTRIBUTION OF WORK.—The course in psychology and one of the required courses in English, history, or science, respectively, may be distributed over the Sophomore and Junior years, as the student may elect, subject to the approval of the Dean.

PRE-LEGAL PROGRAM

Students who wish to enter the College of Law of the University of Cincinnati must have completed at least the Freshman year in an approved college. Those who take this preliminary year in the College of Liberal Arts of the University of Cincinnati should pursue the following courses:

REQUIRED

English Composition	3	credit hours, 2 semesters
English Constitutional History	3	" " 1 "
American Constitutional History	3	" " 1 "
{ Algebra and Trigonometry	3	" " 2 "
or		
Physics	5	" " 2 "
Hygiene	1	" " 2 "
Gymnasium	2	exercises a week, 2 semesters

ELECTIVE: { 4 or 5 hours if mathematics be taken
 { 2 or 3 hours if physics be taken

Latin	3	credit hours, 2 semesters
Economics	3	" " 2 "
Economic History	2	" " 2 "
American Government	3	" " 2 "
Sociology	2	" " 2 "
Survey of English Literature	2	" " 2 "
Shakespeare	3	" " 2 "
Argumentation (on permission)	2	" " 1 "
Public Address " "	2	" " 1 "

PRE-MEDICAL PROGRAM

The Council of Medical Education of the American Medical Association has recently ruled that pre-medical students must fulfill all entrance requirements before they will be admitted to acceptable medical schools.

The minimum requirement for admission to acceptable medical schools, in addition to the high school work, is sixty semester hours of collegiate work, extending through two years, of thirty-two weeks each, exclusive

of holidays, in a college of liberal arts and sciences approved by the Council on Medical Education. The subjects included in the two years of college work should be in accordance with the following schedule:

REQUIRED COURSES:	Semester Hrs.
Chemistry	12
Physics	8
Biology	8
English Composition and Literature	6
Other non-science subjects	12

COURSES STRONGLY URGED:

French or German	6-12
Additional Courses in Chemistry	3-6
Advanced Botany or Zoology	3-6
Psychology	3-6
Advanced Mathematics, including Algebra and Trigonometry..	3-6

SUGGESTED ELECTIVE COURSES:

English (additional), Economics, History, Sociology, Political Science, Logic, Latin, Greek, Drawing

*SUMMER PRE-MEDICAL COURSES

The University of Cincinnati offered in the summer of 1919 courses in physics, analytical chemistry, organic chemistry, and zoology. These courses began on June 9 and continued until August 16, a term of ten weeks. They were open to students whose credentials, filed with the Director of Admissions, showed that they had completed the high school course. Those taking chemistry must have had one year of general chemistry at college. Special students, not candidates for a degree, were also admitted, provided that they showed satisfactory preparation for the particular course to be taken. No student was allowed to take more than one full course or two half courses. A full course consists of one lecture and one laboratory period three days a week.

Students completing these courses in a satisfactory manner receive credits for admission to the College of Medicine. Furthermore, the credits granted in the pre-medical summer courses partially fulfill the requirements for the combined B.S. and M.D. degrees as follows: analytical chemistry, 4 credits; organic chemistry, 4 credits; physics, 8 credits; zoology, 8 credits.

*For courses offered, see p. 131.

COMBINED PROGRAMS

FIVE-YEAR COMBINED LIBERAL ARTS AND
TEACHING PROGRAM

The University offers extended curricula which lead, at the end of the fourth year, to the degree of Bachelor of Arts, conferred upon recommendation of the faculty of the McMicken College of Liberal Arts, and which lead also, at the end of the fifth year, to appropriate teachers' diplomas, conferred upon recommendation of the faculty of the College for Teachers.

SIX-YEAR COMBINED LIBERAL ARTS AND LEGAL
PROGRAM

Leading to the degrees A.B., LL.B.

A student who has received credit for the work of the first two years in the College of Liberal Arts may, in the third year, elect from four to six hours a semester of the lectures of the first year of the law course as a substitute for studies in the College of Liberal Arts, and in the following year he may, in the same way, take the remainder of the thirteen hours of the first year's course in the College of Law. Or, if he so desires, he may elect, in his Senior year, the entire thirteen hours of the first-year law course (equivalent to twenty-six credit hours in the College of Liberal Arts), provided he has fulfilled all the requirements for obtaining his A. B. degree.

*SIX-YEAR COMBINED LIBERAL ARTS AND
MEDICAL PROGRAM

Leading to the degrees B.S., M.D.

The entrance requirements to this course are those to the College of Liberal Arts. The B.S. degree is granted, upon the joint recommendation of the faculties of the Colleges of Liberal Arts and Medicine, at the end of the second medical year, and the M.D. degree at the end of the sixth year.

*Students who are candidates for the B.S. degree in the combined liberal arts and medical course must secure at least 30 liberal arts credits in residence at the University of Cincinnati. These credits may, if the student so desires, be gained during his first and second years in the College of Medicine by work in the Departments of Anatomy, Bacteriology, Bio-Chemistry, Pathology, Pharmacology, and Physiology, recognized by the College of Liberal Arts.

*FIVE-YEAR COMBINED LIBERAL ARTS AND NURSING PROGRAM

Leading to the degree B.S.

The College of Liberal Arts and the School of Nursing and Health have established a course which enables students to obtain the degree of Bachelor of Science upon the completion of five years' work.

The entrance requirements to this course are those to the College of Liberal Arts.

*FOUR-YEAR COMBINED LIBERAL ARTS AND COMMERCIAL PROGRAM

Leading to the degree B.S.

The Colleges of Liberal Arts and of Engineering and Commerce have established a course which enables students to obtain the degree of Bachelor of Science upon the completion of four years' work. (Students taking all of their academic work in the evening session of the College of Liberal Arts can complete the course in five years.)

The entrance requirements to this course are those to the College of Liberal Arts.

FOUR-YEAR COMBINED LIBERAL ARTS AND HOME ECONOMICS PROGRAM

Leading to the degree B.S.

The College of Liberal Arts and the Department of Home Economics have established a course which enables students to obtain the degree of Bachelor of Science upon the completion of four years' work.

The entrance requirements to the course are those to the College of Liberal Arts.

*Students who are candidates for the B.S. degree in the combined Liberal Arts and professional courses other than the medical must spend the second year of academic work in residence in the College of Liberal Arts.

COURSES OF INSTRUCTION SUMMER 1919

JUNE 9-AUGUST 16

CHEMISTRY

ANALYTICAL CHEMISTRY.—A course in quantitative analysis, including part of the work offered in Course 7, as outlined on page 135. Lec., Tu., Th., S., 8:00-9:00; lab., Tu., Th., S., 9:00-12:00. Four credits. Miss Neuffer

ORGANIC CHEMISTRY.—The lectures are arranged to meet the needs of those entering on the study of medicine or biology. This course is a prerequisite to the study of bio-chemistry. It will also be found useful to physicians desiring to continue their studies either in bio-chemistry or physiology. Lec., M., W., F., 8:00-9:00; lab., M., W., F., 9:00-12:00. Four credits.

Mr. Fry

PHYSICS

The course in physics comprises, as far as possible, Courses 26, 27, 2, and 22. (See p. 152.) The course is intended for students preparing to enter the College of Medicine, and its completion will satisfy the physics requirement for entrance to that college. Lec., M., Tu., W., Th., F., S., 8:00-9:00; lab., M., Tu., W., Th., F., S., 9:00-12:00. Eight credits. Mr. Molby

ZOOLOGY

The course in zoology corresponds to Courses 1 and 2. (See p. 159.) It is especially adapted to the needs of students intending to study medicine. Lec., M., Tu., W., Th., F., S., 8:00-9:00; lab., M., Tu., W., Th., F., S., 9:00-12:00. Eight credits. Mr. Day

COURSES OF INSTRUCTION

SESSION 1919-1920

ASTRONOMY

PROFESSOR PORTER

FOR UNDERGRADUATES

- 1b. **DESCRIPTIVE ASTRONOMY.**—Not open to Freshmen. Lectures and class work. No mathematical training is required beyond a geometrical conception of the sphere and its circles. The object of the course is to give a comprehensive view of astronomy in its historic and practical relations, as well as a general résumé of our knowledge concerning the heavenly bodies. *Second semester, Tu., Th., 10:30-11:30.* Mr. Porter

FOR UNDERGRADUATES AND GRADUATES

3. **SPHERICAL AND PRACTICAL ASTRONOMY.**—Once a week throughout the year. Mr. Porter
4. **CELESTIAL MECHANICS.**—Investigation of the fundamental equations of motion and of the formulae for determining the positions of bodies revolving about the sun. Computation of orbits. Once a week throughout the year. Mr. Porter

Courses 3 and 4 will ordinarily be given at the Observatory. Hours to be arranged.

BIBLICAL LITERATURE

LECTURER VANCE

FOR UNDERGRADUATES AND GRADUATES

12. **SOCIAL TEACHINGS OF THE BIBLE.**—An inductive study of the social teachings of the Prophets, Sages, and Jesus. Tu., Th., 11:30-12:30. Mr. Vance

EVENING COURSE

234. **SOCIAL TEACHINGS OF THE BIBLE.**—F., 7:30-9:30. Mr. Vance

***BOTANY**

PROFESSOR BENEDICT; ASSISTANT PROFESSOR WILSON; INSTRUCTORS
BRAUN, BEGTEL, RIKER

In the advanced courses, training in physics and chemistry, as well as ability to read French and German, is of advantage. Special facilities are afforded students pursuing courses of research.

Students contemplating training in agriculture at an agricultural college should, after consultation with the head of this department, register for Courses 1 and 2.

Students who desire to be recommended as teachers of botany in secondary schools must complete as a minimum Courses 1, 2, 3, 4, 5, 6, and 18, inclusive. It is very desirable that they also do at least one year of graduate work.

FOR UNDERGRADUATES

1. **PLANT BIOLOGY.**—This course must be taken in connection with Course 2.
Sec. I: M., W., F., 8:30-9:30 Mr. Benedict
Course 1 is required as a prerequisite to all other courses in botany and agriculture.
2. **EXPERIMENTAL PLANT BIOLOGY.**—This course must be taken in connection with Course 1.
Sec. I: M., W., 1:00-4:00 Sec. III: Tu., Th., 8:30-11:30
Sec. II: Tu., Th., 1:00-4:00 Sec. IV: Tu., Th., 8:30-11:30
Mr. Wilson, Mr. Beghtel, Mr. Riker
3. **PLANT ECOLOGY.**—A course of lectures on the characteristic vegetation of the arctic, temperate, and tropical regions, with a more detailed study of the deserts, grass lands, and forests of the United States, and of the origin of the flora of the Cincinnati region. Relation between structure, habits, and environmental factors is emphasized.
Required of all who desire the recommendation of the department as teachers of botany or nature study in the schools. Tu., Th., 1:00-2:00. Mr. Benedict
Prerequisite: One year of botany
4. **PLANT ECOLOGY, LABORATORY.**—Laboratory and field work. Tu., Th., 2:00-4:00. Miss Braun
Prerequisite: Courses 1 and 2
Required of prospective teachers of botany in secondary schools.

*Properly qualified Juniors and Seniors in the College of Liberal Arts may elect courses in anatomy, bacteriology, pathology, pharmacology, and physiology in the College of Medicine, and may count these courses towards fulfilling the requirements for the A.B. degree.

11. **SANITARY BIOLOGY.**—A course of lectures on environmental factors affecting health, with particular reference to the relation of bacteria to disease and the principles underlying the vaccination and serum treatments. May be entered the second semester. M., W., 10:30-11:30. Mr. Benedict
- Prerequisite: One year of science

FOR UNDERGRADUATES AND GRADUATES

5. **SYSTEMATIC BOTANY.**—One lecture with one laboratory or field period of work a week on the local plants. Lec., M., 4:00-5:00; lab., M., 1:00-3:00.
- Prerequisite: Courses 1 and 2 Miss Braun
- 6a. **PLANT PATHOLOGY.**—The causes, symptoms, and prevention of plant diseases. Lec., Tu., 8:30; lab., Tu., Th., 8:30-11:30.
- Required of pre-agricultural students. Mr. Wilson
- 6b. **BACTERIOLOGY.**—Study of the physiology and morphology of bacteria. Lec., Tu., 8:30; lab., Tu., Th., 8:30-11:30.
- Prerequisite: Courses 1 and 2 Mr. Wilson
- 16a. **PLANT HISTOLOGY.**—One lecture, two laboratory periods a week. *First semester*, lec., M., 1:00-2:00; lab., M., 2:00-4:00, W., 1:00-4:00. Three credits. Mr. Beghtel
- Prerequisite: Two years' work in botany
- 16b. **PLANT CYTOLOGY.**—One lecture, two laboratory periods a week. *Second semester*, lec., M., 1:00-2:00; lab., M., 2:00-4:00, W., 1:00-4:00. Mr. Beghtel
- Prerequisite: Course 16a
17. **SPECIAL PROBLEMS.**—One, two, or three hours' credit. Instructor according to the problem.
- Prerequisite: Three years of botanical work and special aptitude for the type of problem chosen
18. **PLANT PHYSIOLOGY.**—For Seniors in botany and graduate students. Three lectures a week. Mr. Benedict

PRIMARILY FOR GRADUATES

20. **CURRENT PROBLEMS IN BOTANY.**—A reading knowledge of French or German is required. One or two credit hours. Mr. Benedict
- Prerequisite: Courses 1, 2, 3, 4, 5, 6a, 6b, 16a, 16b, 18
21. **RESEARCH.**—Credit according to number of hours elected.
- Mr. Benedict, Mr. Wilson

EVENING COURSE

201. PLANT BIOLOGY.—Lectures and laboratory demonstrations, with special emphasis upon economic applications. Tu., Th., 7:30-9:30. Mr. Wilson

*CHEMISTRY

PROFESSOR FRY, DIRECTOR OF THE LABORATORY; PROFESSOR SWEENEY; ASSOCIATE PROFESSORS GOETTSCH, FARNAU, OESPER; ASSISTANT PROFESSORS †FELTON, NEUFFER; INSTRUCTORS †WOOD, †ROLLE, SCHERRER

FOR UNDERGRADUATES

- 1a. GENERAL INORGANIC CHEMISTRY.—The non-metals. Course 2a forms an integral part of, and must accompany, Course 1a. *First semester*, M., W., F., 8:30-9:30. Mr. Fry and Assistants
- 2a. GENERAL INORGANIC CHEMISTRY, LABORATORY.—*First semester*.
Sec. I: M., W., 1:00-4:00
Sec. II: Tu., Th., 1:00-4:00 Mr. Fry and Assistants
- 3b. GENERAL INORGANIC CHEMISTRY.—The metals. A continuation of Course 1a. This course must be accompanied by Course 4b. *Second semester*, M., W., F., 8:30-9:30.
Prerequisite: Courses 1a and 2a Mr. Fry and Assistants
- 4b. GENERAL INORGANIC CHEMISTRY, LABORATORY.—*Second semester*.
Sec. I: M., W., 1:00-4:00
Sec. II: Tu., Th., 1:00-4:00 Mr. Fry and Assistants
- 5a. QUALITATIVE ANALYSIS.—*First semester*, Tu., Th., 8:30-9:30.
Prerequisite: Courses 3b and 4b Miss Neuffer
6. QUALITATIVE ANALYSIS, LABORATORY.—To accompany Course 5a. *First semester*, three exercises a week. M., W., F., 1:00-4:00
Miss Neuffer
7. QUANTITATIVE ANALYSIS.—*First and second semesters*.
Sec. I: M., W., F., 1:00-4:00
Sec. II: Tu., Th., 1:00-4:00; S., 10:00-12:00; F., 1:00-2:00
Prerequisite: Courses 1, 2, 3, 4 Mr. Oesper

*Properly qualified Juniors and Seniors in the College of Liberal Arts may elect courses in bio-chemistry in the College of Medicine, and may count these courses towards fulfilling the requirements for the A.B. degree.

†Resigned

- 8b. **ELEMENTARY ORGANIC CHEMISTRY.**—This introductory course is arranged to meet the needs of those who intend to specialize in chemistry, in medicine, in engineering, or in biology. It is prerequisite to Intermediate Organic Chemistry. *Second semester*, M., W., F., 8:30-9:30. Miss Neuffer
Prerequisite: Courses 3b and 4b
- 9b. **ORGANIC REACTIONS AND PREPARATIONS.**—Laboratory practice to accompany the lectures of Course 8b. *Second semester*.
Sec. I: M., W., 1:00-4:00
Sec. II: Tu., Th., 1:00-4:00 Miss Neuffer and Assistant
Prerequisite: Courses 3b and 4b
- 14b. **METALLURGY.**—Five credit hours a week. *Second semester*.
Prerequisite: Courses 5a and 6; Physics 1 Mr. Felton, Mr. Wood
- 15b. **ASSAYING.**—*Second semester*, one afternoon a week.
Mr. Felton, Mr. Wood
16. **INDUSTRIAL CHEMISTRY.** Mr. Sweeney
Prerequisite: Courses 5a and 6
17. **TECHNICAL ANALYSIS.**—May be taken either semester or both semesters. Two or three credit hours. Mr. Oesper
Prerequisite: Course 7
41. **CHEMISTRY IN THE HOUSEHOLD ARTS.**—*First and second semesters*, Tu., Th., 11:30-12:30. Miss Neuffer
42. **CHEMISTRY IN THE HOUSEHOLD ARTS, LABORATORY.**—M., F., 9:30-12:30. Miss Neuffer

FOR UNDERGRADUATES AND GRADUATES

- 10a. **ADVANCED INORGANIC CHEMISTRY.**—Tu., Th., 8:30-9:30.
Prerequisite: Courses 8b and 9b Mr. Fry
11. **INORGANIC PREPARATIONS.**—Experiments supplementary to the subject-matter of Course 10a. *First or second semester*, two or three laboratory exercises a week. Mr. Fry
Prerequisite: Courses 7, 8b, and 9b
- 19a. **INTERMEDIATE ORGANIC CHEMISTRY.**—A continuation of Course 8b. M., W., F., 8:30-9:30. Mr. Farnau
Prerequisite: Courses 8b and 9b, or summer organic course
- 12a. **PHYSICAL CHEMISTRY.**—*First semester*, M., W., F., 10:30-11:30. Mr. Rolle
Prerequisite: Courses 5a, 6, 7, 8b, and 9b; Physics 26a and 27b; Mathematics 5
- 13a. **PHYSICAL CHEMISTRY, LABORATORY.**—This course must accompany Course 12a. *First semester*, M., W., 1:00-4:00. Mr. Rolle

- 32b. ELECTRO-CHEMISTRY.—*Second semester*, M., W., F., 10:30-11:30.
Prerequisite: Course 12a Mr. Rolle
- 33b. ELECTRO-CHEMISTRY, LABORATORY.—This course accompanies
Course 32b. *Second semester*, M., W., 1:00-4:00. Mr. Rolle
- 34a. COLLOID CHEMISTRY.—*First semester*. Three lectures a week.
Prerequisite: Courses 12a and 13a Mr. Oesper
28. ULTIMATE ORGANIC ANALYSIS. Mr. Oesper
- 20b. ADVANCED ORGANIC CHEMISTRY.—M., W., F., 8:30-9:30.
Mr. Farnau
Prerequisite: Courses 5a, 6, 7, 8b, 9b, 19a, and a reading knowledge
of German and French.
21. ADVANCED ORGANIC CHEMISTRY, LABORATORY.—Credit according to
number of hours elected. May be taken either first or second
semester, or both semesters. Mr. Farnau, Mr. Rolle
Prerequisite: Same as for Course 20b
- 24b. HISTORY OF CHEMISTRY.—*Second semester*, three exercises a week.
Prerequisite: Courses 5a, 6, 8b and 9b Mr. Fry

PRIMARILY FOR GRADUATES

30. RESEARCH.—Problems for investigation may be chosen from the
following: Organic Chemistry (30a); Inorganic Chemistry
(30b); Physical Chemistry (30c); Industrial Chemistry (30d);
or Metallurgy (30e).
Mr. Fry, Mr. Sweeney, Mr. Goettsch, Mr. Oesper, Mr. Farnau,
Mr. Felton
40. JOURNAL CLUB MEETINGS.

ECONOMICS

(The Sinton Professorship)

PROFESSOR HICKS; ASSOCIATE PROFESSOR FOREMAN; ASSISTANTS
*EICHELBERGER, WARD

Students intending to major in Economics should take Course 1 in the
Freshman year, and Course 2 in the Sophomore year.

FOR UNDERGRADUATES

1. ECONOMICS.—This course is intended to give the students a general
view of the fundamental principles of economics, with special
reference to their relation to social problems.—M., W., F.,
9:30-10:30. Mr. Hicks, Mr. Eichelberger
2. ECONOMIC HISTORY.—Tu., Th., 10:30-11:30. Mr. Foreman

*Resigned

FOR UNDERGRADUATES AND GRADUATES

Open to Juniors and Seniors and to others by special permission.

11. ELEMENTS OF ECONOMICS.—Tu., Th., 3:00-4:00. Mr. Hicks
13. DEVELOPMENT OF ECONOMIC INSTITUTIONS.—*First semester*, M., F., 3:00-4:00. Mr. Hicks
Course 13 should be preceded by Course 2, and preceded or accompanied by Course 11.
14. ECONOMIC POLICIES IN THEIR RELATION TO DISTRIBUTION.—*Second semester*, M., F., 3:00-4:00. Mr. Hicks
Prerequisite: Course 11. Course 14 should be preceded or accompanied by Course 13.
19. MONEY AND BANKING.—*First semester*, M., W., F., 9:30-10:30.
Prerequisite: Course 1 Mr. Foreman
20. TRUSTS.—*Second semester*, M., W., F., 10:30-11:30. Mr. Foreman
Prerequisite: Course 1
17. SOCIALISM.—*First semester*, Tu., Th., 2:00-3:00. Mr. Hicks
Prerequisite: Course 1
16. LABOR.—*Second semester*, Tu., Th., 2:00-3:00. Mr. Hicks
Prerequisite: Course 1

PRIMARILY FOR GRADUATES

12. HISTORY OF ECONOMIC THEORY.—Twice weekly. Mr. Foreman
21. SEMINARY.—W., 2:00-4:00. Mr. Hicks
23. RESEARCH.—Credit according to number of hours elected.
Mr. Hicks, Mr. Foreman

EVENING COURSES

232. ECONOMICS (SIMILAR TO COURSE 1).—Th., 7:30-9:30. Mr. Foreman
231. STATISTICS.—M., 5:00-7:00. Mr. Foreman

EDUCATION

PROFESSORS BURRIS, SECHRIST; MISS JENKINS, MISS LOGAN

The following courses will count towards the A.B. degree in the College of Liberal Arts. They are open to Seniors in this college who expect to spend an additional year in further preparation for teaching.

1. HISTORY AND PRINCIPLES OF EDUCATION.—M., W., F., 9:30-10:30.
Mr. Burris

- 4a. PSYCHOLOGY OF SCHOOL SUBJECTS.—*First semester*, M., W., F.,
2:00-3:00. Mr. Sechrist
- 4b. SCHOOL ECONOMY.—*Second semester*, M., W., F., 2:00-3:00.
Mr. Sechrist
14. MATERIALS AND METHODS FOR ELEMENTARY ENGLISH.—M., W.,
8:30-9:30. Miss Jenkins
18. LITERATURE FOR ELEMENTARY SCHOOLS.—F., 8:30-9:30.
Miss Logan

NOTE.—Those students who wish to qualify in four years for teaching in elementary schools will spend the first two years in the College of Liberal Arts and the last two years in the College for Teachers, receiving, at the end of the four-year period, the degree of B.S., conferred upon recommendation of the faculty of the College for Teachers.

For a complete list of courses in education given in the University, and for full information with regard to the requirements for those who wish to prepare for various positions in school work, see the Announcement of the College for Teachers.

ENGLISH

COMPARATIVE LITERATURE

(The Nathaniel Ropes Foundation for the Comparative Study of Literature)

PROFESSOR CHANDLER; PROFESSORS PARK (ENGINEERING ENGLISH), LOTSPEICH (COMPARATIVE PHILOLOGY); ASSOCIATE PROFESSORS STEVENS, VAN WYE (PUBLIC SPEAKING); ASSISTANT PROFESSORS *YOUNG, SHIPHERD, CUMMINGS; INSTRUCTORS STANLEY, PHILLIPS, BENGERT, BYERS; ASSISTANTS HARPER, PERSONS, REMELIN, STRAUS

All students in English, before making their election of courses, are advised to consult with some member of the department, and to read carefully the departmental bulletin of information as to the proper sequence in which such courses should be taken.

No student should enter or withdraw from a two-semester course at the beginning of the second semester without first consulting the instructor concerned.

Students majoring in English are required to take as part of this course either Course 7 or Course 10.

FOR UNDERGRADUATES ONLY

1. ENGLISH COMPOSITION AND LITERATURE.—Nine sections: M., W., F., 10:30-11:30.†
Mr. Shipherd, Mr. Stevens, Mr. Cummings, Mr. Lotspeich, Miss Stanley, Mr. Phillips, Mr. Byers, Mr. Bengert

*Absent on leave, 1919-1920

†All students who register for English I must keep the M., W., F., 10:30 hour open for this course, but certain students are assigned to sections meeting at other hours.

Course 1 is required of all students in the College of Liberal Arts in the Freshman year.

A practical test of each student's ability to write simple English will precede the regular work of this course. Those found to be notably deficient in spelling, punctuation, grammar, and paragraphing will be assigned to special sub-freshman sections. No college credit will be allowed for work in these sections, but students who show marked progress will be transferred to the regular college sections at the mid-semester and at the end of the first semester.

A passing grade received in English 1 may at any time lapse into a "condition," upon recommendation of the Department of English, or upon the joint recommendation of that and any other department of the College of Liberal Arts. A condition thus incurred may be removed only at the examination period next ensuing, and if not removed within one semester, it will lapse into a failure. The method of removing the condition will be determined by the Department of English according to the individual case, but in any event it must include a written test.

15. ADVANCED COMPOSITION (short story and essay writing).—Tu., Th., 10:30-11:30. Miss Stanley

Course 15 is recommended for Sophomores who have passed creditably in Course 1.

25. PUBLIC SPEAKING.—

Sec. I: Tu., Th., 10:30-11:30

Sec. II: Tu., Th., 11:30-12:30

Mr. Van Wye

Course 25 is recommended for students who expect to take Course 13b.

- 2a. ARGUMENTATION.—*First semester*, Tu., Th., 8:30-9:30.

Mr. Van Wye

Students who take English 2a should have completed both semesters of English 1 with a grade of "C" or better.

- 2b. THE FORMS OF PUBLIC ADDRESS.—*Second semester*, Tu., Th., 8:30-9:30. Mr. Van Wye

Courses 2a and 2b are intended to serve as preparation for debating and effective public speaking. They are recommended for Sophomores and for those who may become candidates for the Jones prizes.

- 13b. DEBATING.—*Second semester*, M., 3:00-5:00. Mr. Van Wye

Course 13b is open to students who have passed creditably in Courses 1 and 2a. Students interested in public speaking are advised to take Courses 2a and 2b one year, and Course 13b the next.

3. THE APPRECIATION OF LITERATURE.—Tu., Th., 9:30-10:30.

Mr. Chandler

Course 3 involves considerable writing in verse. It is recommended for Freshmen only. Other students will receive but half credit.

9. A SURVEY OF ENGLISH LITERATURE.—Tu., Th., 9:30-10:30.
Mr. Cummings
Course 9 is recommended for Sophomores who have not had English 3.
Those who desire three credits will attend for a third hour of discussion on S., 9:30-10:30.
5. SHAKESPEARE.—M., W., F., 9:30-10:30. Mr. Stevens
Course 5 is recommended for Freshmen and Sophomores.
48. THE ENGLISH LANGUAGE.—Tu., Th., 11:30-12:30. Miss Stanley
11. THE ENGLISH NOVEL—RICHARDSON TO HARDY.—M., W., F.,
1:00-2:00. Mr. Stevens
6. VICTORIAN POETRY.—M., W., F., 8:30-9:30. Mr. Shipherd
Course 6 is recommended for Juniors and Seniors.
16. ROMANTIC POETRY.—Tu., Th., 9:30-10:30. Mr. Phillips
18. AMERICAN LITERATURE (prose in 1919-20; poetry in 1920-21).—
Tu., Th., 1:00-2:00. Mr. Byers
- Education 14. MATERIALS AND METHODS FOR ELEMENTARY ENGLISH.—
M., W., 8:30-9:30. Miss Jenkins
- Education 18. LITERATURE FOR ELEMENTARY SCHOOLS.—F., 8:30-9:30.
Miss Logan

FOR UPPER CLASSMEN AND GRADUATES

12. LITERARY COMPOSITION.—Tu., Th., 10:30-11:30. Mr. Shipherd
Membership in Course 12 is strictly limited. Those who wish to enter should first submit manuscripts to the instructor for approval.
47. HISTORY OF THE ENGLISH LANGUAGE.—
Sec. I: Tu., Th., 8:30-9:30
Sec. II: W., 4:00-6:00 Mr. Lotspeich
10. CHAUCER AND HIS PERIOD.—S., 9:30-11:30. Mr. Stevens
44. STUDIES IN SHAKESPEARE.—Tu., Th., 3:00-4:00. Mr. Shipherd
- 26a. THE ESSAY.—*First semester*, Th., 4:00-6:00. Mr. Park
17. RECENT ENGLISH AND AMERICAN POETRY.—Tu., Th., 11:30-12:30.
Mr. Cummings
Those who desire three credits will attend for a third hour on S., 11:30-12:30.
43. CONTEMPORARY EUROPEAN FICTION.—Tu., Th., 10:30-11:30.
Mr. Stevens

24. RECENT EUROPEAN DRAMA.—Tu., Th., 1:00-2:00. Mr. Chandler
 30. TYPES OF COMIC LITERATURE.—Tu., Th., 2:00-3:00.
 Mr. Chandler

FOR GRADUATES ONLY

120. THEORIES OF LITERATURE: SEMINARY.—M., 4:00-6:00.
 Mr. Chandler

FOR TEACHERS

For courses available for teachers, see Courses 10, 44, 26a, 47, 120, the evening courses, and the following:

40. VOICE TRAINING FOR TEACHERS.—W., 4:00-6:00. Mr. Van Wye
 42. VOCAL INTERPRETATION OF LITERATURE.—F., 4:00-6:00.
 Prerequisite: Course 40 or an equivalent Mr. Van Wye
 49. PARLIAMENTARY LAW.—W., 3:00-4:00. Mr. Van Wye

EVENING COURSES

230. ENGLISH COMPOSITION AND LITERATURE.—
 Sec. I: W., 7:30-9:30 Mr. Shipherd
 Sec. II: Tu., 5:00-7:00 Mr. Byers
 233. PUBLIC SPEAKING.—Tu., 7:30-9:30. Mr. Van Wye
 232. SHAKESPEARE.—Th., 7:30-9:30. Mr. Byers
 211. THE ENGLISH NOVEL.—M., 7:30-9:30. Mr. Phillips

GEOLOGY AND GEOGRAPHY

PROFESSOR FENNEMAN; ASSISTANT PROFESSORS BUCHER, VON SCHLICHTEN

FOR UNDERGRADUATES

1. INTRODUCTION TO THE EARTH SCIENCES.—This course must be taken in connection with Course 4 (laboratory). By special agreement with the instructor in charge, students above the Freshman year may omit the laboratory course. Lec., M., W., F., 8:30-9:30. Mr. Fenneman
 4. LABORATORY EXERCISES.—To accompany Course 1. Tu., Th., 1:00-4:00. For possible sections at other hours consult instructor in charge. Mr. Bucher

9. HISTORICAL GEOLOGY.—Accepted as graduate work by agreement with the professor in charge. Lec., Tu., Th., 8:30-9:30.
Prerequisite: Course 1, 2, or 14 Mr. Bucher
14. Course 14 is outlined under the heading "For Teachers." Open to college students by special agreement with the professor in charge.

FOR UNDERGRADUATES AND GRADUATES

- 5b. FIELD GEOLOGY AND SURVEY METHODS.—*Second semester.* Hours and amount of credit to be arranged by agreement with each student. Mr. Bucher
7. MINERALOGY.—Lectures and laboratory. M., W., F., 9:30-10:30; F., 1:00-4:00. Three credits. Mr. von Schlichten
11. PRACTICAL EXERCISES IN STRUCTURAL GEOLOGY (LAB. ONLY).—One hour credit. Tu., 4:00-6:00. Mr. Bucher
12. PETROLOGY.—M., 10:30-11:30; Tu., Th., 9:30-11:30.
Prerequisite: Course 7 Mr. von Schlichten
13. SPECIAL WORK IN GEOLOGY.—Any student in this department may, by agreement with the instructors in charge, register for individual study or investigation not described in the list of courses. Such work must be regularly supervised and approved upon examination or by the preparation of a thesis. Credit according to number of hours elected.
Course 16 is outlined under the heading "For Teachers."
22. APPALACHIAN FIELD COURSE.—Eight weeks during summer in camp in southwestern Virginia. Eight credits. Mr. von Schlichten
Prerequisite: Course 1, 2, or 14
10. ADVANCED PALEONTOLOGY.—Th., 4:00-6:00. Mr. Bucher

FOR TEACHERS

14. GENERAL GEOLOGY FOR TEACHERS.—Lec., S., 8:30-10:30; field or lab., 10:30-12:30. Mr. Bucher
16. ADVANCED PHYSIOGRAPHY OF THE UNITED STATES.—Runs through two years, but may be entered at the beginning of any semester. W., 4:00-6:00; S., 10:30-11:30. Mr. Fenneman
Prerequisite: Courses 1 (or 14) and 9 (or 19)

EVENING COURSE

217. GEOGRAPHY OF THE WORLD'S NATURAL RESOURCES.—M., 7:30-9:30.
Mr. Fenneman

GERMAN

PROFESSORS POLL, LOTSPEICH; INSTRUCTORS NIPPERT*, NOONAN

FOR UNDERGRADUATES

1. ELEMENTARY GERMAN.—
 Sec. I: Tu., Th., S., 8:30-9:30
 Sec. II: M., W., F., 11:30-12:30 Mrs. Noonan
 Course 1 is open to students who have had no German in the high school.
2. GERMAN PROSE AND POETRY.—
 Sec. I: M., W., F., 8:30-9:30
 Sec. II: M., W., F., 9:30-10:30 Mrs. Noonan
 Prerequisite: Course 1 or two years of high school German
 Courses 1 and 2 do not count towards a major in German.
20. GERMAN SCIENTIFIC PROSE.—Tu., Th., 11:30-12:30. Mr. Lotspeich
 Prerequisite: Course 1 or its equivalent
 Course 20 does not count towards a major in German. If taken after
 Course 2, Course 20 will count only as a half course.
3. GERMAN COMPOSITION (BEGINNER'S COURSE).—Tu., Th., 10:30-11:30.
 Prerequisite: Course 1 Mrs. Noonan
 Courses 2 and 3 may be advantageously taken together.
4. INTRODUCTION TO GERMAN LITERATURE OF THE EIGHTEENTH CENTURY.—M., W., F., 9:30-10:30. Mr. Poll
 Prerequisite: Course 2 or four years of high school German
 Students in this course are urged to take a composition course in addition.
21. GERMAN COMPOSITION (INTERMEDIATE COURSE).—Tu., Th., 9:30-10:30. Mr. Poll
 Prerequisite: Course 2
 Courses 4 and 21 may be advantageously taken together.

*Absent on leave, 1919-1920

FOR UNDERGRADUATES AND GRADUATES

5. HISTORY OF GERMAN LITERATURE TO THE NINETEENTH CENTURY.—
Special study of the classic periods of the twelfth and
eighteenth centuries. M., W., F., 10:30-11:30. Mr. Poll
Prerequisite: Course 4

PRIMARILY FOR GRADUATES

17. GERMAN DRAMA OF THE NINETEENTH AND TWENTIETH CENTURIES.—
Th., 4:00-6:00. Mr. Poll
Prerequisite: Course 3
7. MIDDLE HIGH GERMAN.—Th., 4:00-6:00. Mr. Poll

EVENING COURSES

233. ELEMENTARY GERMAN.—W., 7:30-9:30. Mrs. Noonan

GREEK

PROFESSOR BATTLE

FOR UNDERGRADUATES

1. ATTIC PROSE.—M., W., F., 9:30-10:30, throughout the year.
Prerequisite: Three years of high school Greek Mr. Battle
9. ELEMENTARY GREEK.—Open to students who have had no Greek in
the high school. M., W., F., 8:30-9:30. Mr. Battle
15. INTERMEDIATE GREEK.—M., W., F., 11:30-12:30. Mr. Battle
Prerequisite: Course 9 or two years of high school Greek
16. THE GREEK ELEMENT IN THE ENGLISH LANGUAGE.—Open to all
students. *Second semester*, Tu., Th., 11:30-12:30. Mr. Battle

FOR UNDERGRADUATES AND GRADUATES

4. ADVANCED READING.—Tu., Th., 1:00-2:30. Mr. Battle
Prerequisite: Course 1

FOR GRADUATES ONLY

123. CONFERENCE COURSE.—M., W., 2:00-3:30. Mr. Battle

HISTORY

*PROFESSOR WHITCOMB; ACTING PROFESSOR GRIFFITH; ASSISTANT PROFESSOR McGRANE; LECTURER MYERS; INSTRUCTOR CHAMBERS; ASSISTANT GUHMANN

D. A. R. FELLOW IN AMERICAN HISTORY: HERBERT T. LEYLAND

FOR UNDERGRADUATES

1. MIDDLE AGES—REFORMATION.—M., W., F., 9:30-10:30.
Mr. Chambers
 3. THE REVOLUTION AND NAPOLEON.—M., W., F., 10:30-11:30.
Mr. Griffith
 13. GENERAL COURSE IN ENGLISH HISTORY.—M., W., F., 11:30-12:30.
Mr. Griffith
 29. ANCIENT HISTORY TO 476 A.D.—Tu., Th., 8:30-9:30.
Mr. Chambers
 15. GENERAL COURSE IN AMERICAN HISTORY.—M., W., F., 1:00-2:00.
Mr. McGrane
 61. ENGLISH AND AMERICAN CONSTITUTIONAL HISTORY.—M., W., F.,
2:00-3:00. Mr. McGrane
- Required for pre-legal students; open to others by permission.

FOR UNDERGRADUATES AND GRADUATES

2. RENAISSANCE IN ITALY AND GERMANY.—Tu., Th., 9:30-10:30.
Mr. Griffith
 25. EUROPEAN HISTORY SINCE 1814.—Tu., Th., 10:30-11:30.
Mr. Griffith
 17. RECENT AMERICAN HISTORY.—M., W., F., 8:30-9:30.
Mr. McGrane
- Open to Juniors and Seniors; to others by permission.
20. SPAIN AND SPANISH AMERICA.—M., W., F., 9:30-10:30.
Mr. Chambers
 62. HISTORY OF THE WEST.—Tu., Th., 1:00-2:00. Mr. Chambers

PRIMARILY FOR GRADUATES

63. SEMINARY IN EUROPEAN HISTORY: THE PEACE TREATIES.—Tu.,
4:00-6:00. Mr. Griffith

*Absent on leave, 1919-1920

EVENING COURSES

247. RECENT AMERICAN HISTORY.—Th., 7:30-9:30. Mr. McGrane
 259. SPAIN AND SPANISH AMERICA.—W., 7:30-9:30. Mr. Chambers
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HISTORY OF ART

LECTURER PATTEE; PROFESSOR BATTLE

- 2a. ITALIAN PAINTING.—*First semester*, Tu., Th., 11:30-12:30.
 Miss Pattee
 3b. NORTHERN PAINTING.—*Second semester*, Tu., Th., 11:30-12:30.
 Miss Pattee
 4a. SPANISH, FRENCH, AND ENGLISH ART.—*First semester*, M., 4:00-6:00.
 Miss Pattee
 5b. MODERN PAINTING.—*Second semester*, M., 4:00-6:00.
 6a, b. ANCIENT ART.—A study of the foundations of the art of today.
 Tu., Th., 10:30-11:30. Mr. Battle

The above courses are open to Sophomores, Juniors, and Seniors.

HYGIENE AND PHYSICAL EDUCATION

PROFESSOR MORRISON; INSTRUCTORS HILLAS, NIKOLOFF, BOSWELL,
 DUKE, BRUNHOFF, SHERMAN; DIRECTOR OF ATHLETICS CHAMBERS

PHYSICAL EDUCATION 1. PRACTICE (required of Freshman men).—Practical work in the gymnasium, two hours a week; swimming, one hour a week, to be arranged.

Sec. I: M., W., 11:30-12:30

Sec. II: Tu., Th., 11:30-12:30

Sec. III: Tu., Th., 10:30-11:30

Mr. Nikoloff

PHYSICAL EDUCATION 2. PRACTICE (required of Sophomore men).—Elective games and sports, two hours a week; swimming, one hour a week, to be arranged.

Sec. I: M., W., 10:30-11:30

Sec. II: Tu., Th., 1:00-2:00

Sec. III: M., W., 9:30-10:30

Mr. Nikoloff

PHYSICAL EDUCATION 1. PRACTICE (required of Freshman women).—
Practical work in the gymnasium, two hours a week; swimming, one hour a week to be arranged.

Sec. I: M., W., 11:30-12:30

Sec. II: Tu., Th., 10:30-11:30

Sec. III: Tu., Th., 2:00- 3:00 Miss Hillas, Miss Duke

PHYSICAL EDUCATION 2. PRACTICE (required of Sophomore women).—
Sections II and III of this course are elective with reference to the physical condition of the student. Section I consists of general gymnastics; Section II of games and athletics; Section III of dancing. (Swimming hour to be arranged.)

Sec. I: Tu., Th., 9:30-10:30

Sec. II: Tu., Th., 11:30-12:30

Sec. III: Tu., Th., 1:00- 2:00 Miss Hillas, Miss Duke

HYGIENE 3. PERSONAL HYGIENE (required of Freshman men and women).
Lectures, reading, and reports. One credit a semester.

Sec. I: F., 1:00-2:00

Sec. II: F., 2:00-3:00 Dr. Morrison

PHYSICAL TRAINING 5. HYGIENIC GYMNASTICS (for men).—M., Th., 4:30-5:30. No credit. Dr. Morrison

PHYSICAL TRAINING 6. HYGIENIC GYMNASTICS (for women).—M., Th., 4:30-5:30. No credit. Miss Hillas

EVENING COURSE

PHYSICAL TRAINING A. HYGIENIC GYMNASTICS (for women).—Tu., 7:30-9:30. Miss Duke

LATIN

PROFESSOR BURNAM; ASSOCIATE PROFESSOR SEMPLE

FOR UNDERGRADUATES

1. SELECTIONS FROM THE HISTORICAL LITERATURE OF ROME; LIVY, PLINY, AND TACITUS.—

Sec. I: M., W., F., 11:30-12:30

Sec. II: M., W., F., 9:30-10:30

Mr. Semple

Prerequisite: Four years of high school Latin

2. SELECTIONS FROM OVID, HORACE, AND CATULLUS.—M., W., F.,
10:30-11:30. Mr. Semple
Prerequisite: Course 1
3. COMEDY.—Plautus and Terence, *first semester*. Lucretius *De Rerum
Natura*, *second semester*. Mr. Semple
Prerequisite: Courses 1 and 2
5. LATIN LITERATURE.—Tu., Th., 11:30-12:30. Mr. Semple
12. SPECIAL TOPICS.—For Juniors and Seniors. One hour.
Prerequisite: Courses 1 and 2 Mr. Burnam

FOR GRADUATES AND UNDERGRADUATES

4. CICERO DE ORATORE AND BRUTUS.—Three hours.
Prerequisite: Courses 1 and 2 Mr. Burnam

SANSKRIT

32. SANSKRIT (ADVANCED).—Three hours. Mr. Burnam

*MATHEMATICS

PROFESSORS HANCOCK, SLOCUM, BRAND; ASSOCIATE PROFESSORS
MOORE, SMITH, KINDLE; INSTRUCTORS SALKOVER, DAVIS

FOR UNDERGRADUATES

1. ALGEBRA, TRIGONOMETRY.—Students who matriculate with *less than
three units* in mathematics, and who elect mathematics, *must* take
Course 1 or 2.
Sec. I: M., W., F., 8:30- 9:30 Mr. Moore
Sec. II: M., W., F., 9:30-10:30 Mr. Salkover
4. TRIGONOMETRY AND ANALYTICS.—Students who matriculate with
three or more units in mathematics, and who elect mathematics,
must take Course 3 or 4. Tu., Th., S., 9:30-10:30.
Mr. Salkover

*For other courses in mathematics and applied mathematics, see Announcements of
College of Engineering and Commerce and College for Teachers.

50. COURSE FOR TEACHERS OF ELEMENTARY MATHEMATICS.—Review of elementary and secondary mathematics, with advanced study of mathematical principles. See Announcement of College for Teachers under heading "Courses in Liberal Arts Departments." Tu., 4:00-6:00. Mr. Moore, Mr. Davis
2. ALGEBRA, BUSINESS MATHEMATICS.—Tu., Th., S., 8:30-9:30.
Mr. Moore
3. ANALYTICAL GEOMETRY OF TWO AND THREE DIMENSIONS.—Sophomores who have taken Course 1 and Freshmen who enter with *four units* in mathematics may (by special permission) take Course 3. M., W., F., 9:30-10:30. Mr. Moore
5. CALCULUS. DIFFERENTIAL AND INTEGRAL.—M., Tu., Th., F., 10:30-11:30. Mr. Hancock

FOR UNDERGRADUATES AND GRADUATES

- 8a. ADVANCED INTEGRAL CALCULUS.—*First semester*, M., W., F., 9:30-10:30. Mr. Hancock
- 9b. DIFFERENTIAL EQUATIONS.—*Second semester*, M., W., F., 9:30-10:30. Mr. Hancock

PRIMARILY FOR GRADUATES

31. THEORY OF NUMBERS, PART II.—Algebraic Numbers.—Dedekind's Theory.—Tu., Th., 4:00-6:00. Mr. Hancock
28. THEORY OF FUNCTIONS OF A COMPLEX VARIABLE.—M., W., 4:00-5:30. Mr. Moore
26. HISTORY AND TEACHING OF MATHEMATICS.—W., 4:00-5:00; F., 4:00-6:00. Mr. Slocum
40. SEMINARY.—Credit according to number of hours elected. Hours by special agreement. Mr. Slocum

EVENING COURSES

240. ALGEBRA; TRIGONOMETRY.—Selected portions of algebra and elementary Theory of Equations. W., 7:30-9:30. Mr. Smith
242. ANALYTICAL GEOMETRY AND ELEMENTARY CALCULUS.—F., 7:30-9:30. Mr. Kindle

PHILOSOPHY

PROFESSOR TAWNEY; ASSOCIATE PROFESSOR HARTMAN; ASSISTANT PROFESSOR CROWLEY; ASSISTANTS JAFFE, WERNER

FOR UNDERGRADUATES

- 1a. INTRODUCTION TO PHILOSOPHY.—*First semester*, M., W., F., 9:30-10:30. Mr. Hartman
Prerequisite: One year of university work
- 1b. PHILOSOPHICAL IDEALISM HISTORICALLY AND CRITICALLY TREATED.—*Second semester*, M., W., F., 9:30-10:30. Mr. Hartman

FOR UNDERGRADUATES AND GRADUATES

- 2a. INTRODUCTION TO LOGIC.—*First semester*, M., W., F., 11:30-12:30.
Prerequisite: One year of university work Mr. Tawney
- 2b. THEORY OF SCIENTIFIC METHOD.—*Second semester*, M., W., F., 11:30-12:30. Mr. Tawney
Prerequisite: Course 2a
- 4a. HISTORY OF PHILOSOPHY TO THE BEGINNING OF THE CHRISTIAN ERA.—*First semester*, M., W., F., 8:30-9:30. Mr. Hartman
- 4b. HISTORY OF THE PHILOSOPHY OF THE MIDDLE AGES.—*Second semester*, M., W., F., 8:30-9:30. Mr. Hartman
- 5a. ETHICS.—*First semester*.
Sec. I: M., W., F., 10:30-11:30. Mr. Tawney
Sec. II: M., W., F., 10:30-11:30. Mr. Crowley
Sec. III: M., W., F., 1:00- 2:00 Mr. Crowley
Prerequisite: Two years of university work
- 5b. ETHICAL INTERPRETATIONS.—*Second semester*.
Sec. I: M., W., F., 10:30-11:30. Mr. Tawney
Sec. II: M., W., F., 10:30-11:30. Mr. Crowley
Sec. III: M., W., F., 1:00- 2:00 Mr. Crowley
Prerequisite: Course 5a
- 8a. AESTHETICS.—The theory of art and the beautiful. *First semester*,
Tu., Th., 1:00-2:00. Mr. Hartman
- 8b. AESTHETICS.—The theory of art and the beautiful. *Second semester*,
Tu., Th., 1:00-2:00. Mr. Hartman
Prerequisite: Psychology 1a and 1b

EVENING COURSES

222. ETHICS (SIMILAR TO COURSES 5A AND 5B).—M., 7:30-9:30.
Mr. Crowley

208. AESTHETICS.—The theory of art and the beautiful. Th., 5:00-7:00.
Mr. Hartman

It should be remembered that work in the Department of Philosophy is facilitated by courses in psychology, sociology, political science, general history, economics, the history of education, aesthetics, and other allied subjects dealing with human life and the products of civilization.

PHYSICS

PROFESSORS MORE, ALLEN; ASSISTANT PROFESSOR MOLBY; INSTRUCTOR EVENS; ASSISTANT KARBLER

FOR UNDERGRADUATES

- 26a. GENERAL PHYSICS.—*First semester*, M., W., F., 11:30-12:30.
Mr. More
- 27b. GENERAL PHYSICS.—*Second semester*, M., W., F., 11:30-12:30.
Mr. More

N.B.—The above courses are designed for students in the College of Liberal Arts only; they may be elected in the Freshman year. Taken with Courses 2a and 22b, Experimental Physics, they satisfy the science requirement.

- 2a. EXPERIMENTAL PHYSICS.—Laboratory work arranged to accompany Course 26a. *First semester*.
Sec. I: Tu., Th., 8:30-11:30
Sec. II: Tu., Th., 1:00-4:00 Mr. Allen, Mr. Molby
- 22b. EXPERIMENTAL PHYSICS.—Laboratory work arranged to accompany Course 27b. *Second semester*.
Sec. I: Tu., Th., 8:30-11:30
Sec. II: Tu., Th., 1:00-4:00 Mr. Allen, Mr. Molby
- 28a. ADVANCED GENERAL PHYSICS.—*First semester*, Tu., Th., 9:30-10:30.
Mr. Allen
- 29b. ADVANCED GENERAL PHYSICS.—*Second semester*, Tu., Th., 9:30-10:30.
Mr. Allen
- Prerequisites for Courses 28 and 29: Physics 26 and 27; Mathematics 1
- 4a. INTERMEDIATE EXPERIMENTAL PHYSICS.—M., W., 1:00-4:00.
Mr. Allen

- 4b. INTERMEDIATE EXPERIMENTAL PHYSICS.—M., W., 1:00-4:00.

Mr. Allen

Courses 4a and 4b are arranged to accompany Courses 28a and 29b.

FOR UNDERGRADUATES AND GRADUATES

- 32b. PHILOSOPHY OF SCIENCE.—From the Renaissance to modern times.
Tu., Th., 11:30-12:30. Mr. More

Course 32b is open to all students, above the Sophomore year, who have had a course in any science. No mathematics required.

- 19a. THEORY OF HEAT.—*First semester*, Tu., S., 10:30-12:00.

Mr. More

- 15b. THEORY OF LIGHT.—*Second semester*, Tu., S., 10:30-12:00.

Mr. More

The above courses may be elected for a minor in physics; the following courses for a major in graduate work.

8. ADVANCED EXPERIMENTAL PHYSICS.—Credit according to number of hours elected. Mr. Allen

10. SEMINARY.—The reading and discussion of papers in physical journals. W., 4:00-6:00. Mr. More

16. PHYSICAL MANIPULATIONS.—A series of exercises in scientific shop-work. No credit. Mr. Evens

- 33a. DISCHARGE OF ELECTRICITY THROUGH GASES.—Twice weekly. Mr. Allen

- 33b. DISCHARGE OF ELECTRICITY THROUGH GASES.—Twice weekly. Mr. Allen

POLITICAL SCIENCE

PROFESSOR LOWRIE; ASSOCIATE PROFESSOR GARDNER; ASSISTANT JAFFE

FOR UNDERGRADUATES

1. AMERICAN GOVERNMENT.—M., W., F., 10:30-11:30. Mr. Gardner

8. CIVICS.—For students who intend to teach. Tu., Th., 4:00-6:00.
Mr. Gardner, Mr. Jaffe

FOR GRADUATES AND UNDERGRADUATES

- 11a. MUNICIPAL GOVERNMENT.—*First semester*, M., W., F., 8:30-9:30.
Mr. Lowrie
- 11b. MUNICIPAL ADMINISTRATION.—*Second semester*, M., W., F., 8:30-9:30.
Mr. Lowrie
2. INTERNATIONAL LAW.—M., W., 11:30-12:30.
Prerequisite: Junior or Senior standing Mr. Lowrie
12. WORLD POLITICS.—F., 11:30-12:30.
Should be elected with Course 2. Mr. Lowrie
9. EUROPEAN GOVERNMENTS.—*Second semester*, M., W., F., 9:30-10:30.
Prerequisite: Course 1 Mr. Gardner
17. CONSTITUTIONAL LAW.—*First semester*, M., W., F., 9:30-10:00.
Prerequisite: Course 1 Mr. Gardner
10. PROBLEMS OF NATIONAL ADMINISTRATION.—*Second semester*, Tu., Th., 9:30-10:30.
Mr. Gardner
Prerequisite: Course 1
3. DEVELOPMENT OF POLITICAL THOUGHT.—*First semester*, Tu., Th., 1:00-2:00.
Mr. Gardner
Prerequisite: At least one course in political science and Junior or Senior standing
13. READING IN POLITICAL THOUGHT.—Two credits. Mr. Gardner
Prerequisite: Course 3
25. SEMINAR.—M., 4:00-6:00. To be taken only with the permission of the instructor. Mr. Lowrie

EVENING COURSE

233. WORLD POLITICS.—Tu., 7:30-9:30. Mr. Lowrie

PSYCHOLOGY

PROFESSORS BREESE, SECHRIST; ASSISTANT PROFESSOR TALBERT;
ASSISTANT DISERENS

FOR UNDERGRADUATES

- 1a. INTRODUCTORY PSYCHOLOGY.—*First semester*, M., W., F., 11:30-12:30.
Mr. Breese
- 1b. A continuation of 1a.—*Second semester*, M., W., F., 11:30-12:30.
Mr. Breese
- EDUCATION 4a. PSYCHOLOGY OF SCHOOL SUBJECTS.—*First semester*, M., W., F., 2:00-3:00.
Mr. Sechrist

FOR UNDERGRADUATES AND GRADUATES

- 2a. EXPERIMENTAL PSYCHOLOGY.—*First semester*, M., W., F., 2:00-5:00.
Mr. Diserens
- 2b. A continuation of 2a.—*Second semester*, M., W., F., 2:00-5:00.
Mr. Diserens
- *9. MENTAL AND PHYSICAL TESTS.—Laboratory work with collateral reading. Two credits a semester. Tu., 3:00-5:00.
Mr. Breese, Mr. Diserens
- 20a. PSYCHOLOGY OF PRIMITIVE PEOPLES.—*First semester*, S., 9:30-11:30.
Mr. Talbert
- 20b. PSYCHOLOGY OF PRIMITIVE PEOPLES.—*Second semester*, S., 9:30-11:30.
Mr. Talbert

PRIMARILY FOR GRADUATES

3. RESEARCH. Mr. Breese

EVENING COURSES

230. INTRODUCTORY PSYCHOLOGY.—Tu., 7:30-9:30. Mr. Breese
232. SOCIAL PSYCHOLOGY.—M., 5:00-7:00. Mr. Talbert

ROMANCE LANGUAGES

PROFESSOR OGDEN; ASSISTANT PROFESSORS HUBERT, BROWN; INSTRUCTORS PASSARELLI, KINNE

FRENCH

FOR UNDERGRADUATES

1. ELEMENTARY FRENCH.—
- | | |
|-----------------------------------|------------|
| Sec. I: M., W., F., 8:30-9:30 | Mr. Hubert |
| Sec. II: Tu., Th., S., 8:30-9:30 | Mr. Kinne |
| Sec. III: M., W., F., 11:30-12:30 | Mr. Kinne |
| Sec. IV: M., W., F., 11:30-12:30 | Mr. Hubert |
| Sec. V: M., W., F., 8:30-9:30 | Mr. Ogden |

Course 1 is open to students who have had no preparation in French.

*In connection with this course, the department maintains a psychological clinic on Tuesday mornings from 9:00 to 12:30. Students in Psychology 9 may by special arrangement observe the work of the clinic.

2. INTERMEDIATE FRENCH.—
 Sec. I: M., W., F., 9:30-10:30 Mr. Ogden
 Sec. II: Tu., Th., S., 9:30-10:30 Mr. Kinne
 Sec. III: M., W., F., 9:30-10:30 Mr. Kinne
 Prerequisite: Course 1 or two years of high school French
11. FRENCH LITERATURE IN THE NINETEENTH CENTURY.—M., W., F.,
 10:30-11:30. Mr. Hubert
 Prerequisite: Course 2
3. FRENCH COMPOSITION.—Tu., Th., 11:30-12:30. Mr. Hubert
 With the permission of the instructor.
 Prerequisite: Course 2
15. FRENCH CONVERSATION.—M., W., F., 11:30-12:30. Two credits.
 Sec. I: Mr. Ogden
 Sec. II: Mlle. Cormier
20. FRENCH SCIENTIFIC PROSE.—For pre-medical students primarily.
 M., W., 8:30-9:30. Mr. Kinne

FOR UNDERGRADUATES AND GRADUATES

4. FRENCH DRAMA IN THE SEVENTEENTH CENTURY.—Tu., Th., 9:30-
 10:30. Mr. Ogden
 Prerequisite: Course 11
5. FRENCH DRAMA IN THE NINETEENTH CENTURY.—W., F., 1:00-2:00.
 Mr. Passarelli
12. OLD FRENCH READING.—Two credits. Tu., 4:00-6:00.
 Prerequisite: Course 4 or its equivalent Mr. Hubert
24. NINETEENTH CENTURY POETS.—Th., 4:00-6:00. Mr. Passarelli
 Prerequisite: Course 4 or 11
26. DEVELOPMENT OF THE FRENCH DRAMA.—Tu., Th., 9:30-10:30.
 Mr. Ogden

FOR TEACHERS

24. Course 24, outlined above, is open by permission to teachers as well as to regular students.

Teachers who are pursuing graduate studies and are qualified to do advanced work in the Romance languages may elect courses from the above upon advice from the head of the department.

EVENING COURSES

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| 233. | ELEMENTARY FRENCH.—Tu., 7:30-9:30. | Mr. Hubert |
| 235. | INTERMEDIATE FRENCH.—M., 7:30-9:30. | Mr. Ogden |

SPANISH

FOR UNDERGRADUATES

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| 6. | ELEMENTARY SPANISH.—
Sec. I: M., W., F., 9:30-10:30
Sec. II: M., W., F., 11:30-12:30
Sec. III: M., W., F., 11:30-12:30 | Mr. Passarelli
Mr. Brown
Mr. Passarelli |
| 18. | SPANISH COMPOSITION.—Tu., Th., 1:00-2:00. | Mr. Brown |
| 9. | INTERMEDIATE PROSE.—M., W., F., 1:00-2:00. | Mr. Brown |
| 14. | NINETEENTH CENTURY PROSE AND VERSE.—M., W., F., 2:00-3:00.
Prerequisite: Course 9 | Mr. Brown |
| 40. | ADVANCED READING.—Primarily for teachers. Th., 4:00-6:00. | Mr. Passarelli |

FOR UNDERGRADUATES AND GRADUATES

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| 8. | CERVANTES (DON QUIXOTE) AND CALDERON.—Th., 4:00-6:00. | Mr. Brown |
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EVENING COURSES

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| 232. | ELEMENTARY SPANISH.—F., 7:30-9:30. | Mr. Passarelli |
| 234. | INTERMEDIATE SPANISH.—W., 7:30-9:30. | Mr. Passarelli |
| 236. | ADVANCED SPANISH.—W., 7:30-9:30. | Mr. Brown |

ITALIAN

FOR UNDERGRADUATES

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| 7. | ELEMENTARY ITALIAN.—M., W., F., 8:30-9:30. | Mr. Passarelli |
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FOR UNDERGRADUATES AND GRADUATES

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| 16. | ITALIAN LITERATURE IN THE NINETEENTH CENTURY.—M., 3:00-5:00. | Mr. Hubert |
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SOCIAL SCIENCE

*PROFESSOR PARKER; INSTRUCTORS *VAN MATRE, CONRAD

FOR UNDERGRADUATES

1. ELEMENTARY SOCIOLOGY.—Tu., Th., 9:30-10:30. Mr. Parker
2. ELEMENTARY SOCIOLOGY.—For nurses. Tu., Th., 4:00-5:00.
Mr. Van Matre

FOR UNDERGRADUATES AND GRADUATES

6. SOCIAL PATHOLOGY.—M., W., 9:30-10:30. Mr. Parker
7. PRINCIPLES OF SOCIAL RECONSTRUCTION.—Tu., Th., 10:30-11:30.
Mr. Parker
8. COMPARATIVE SOCIAL THEORIES.—M., W., 10:30-11:30.
Mr. Parker
9. SOCIAL PROBLEMS.—M., W., 11:30-12:30. Mr. Parker
20. SEMINAR.—M., 1:00-3:00. Mr. Parker
11. ORGANIZATIONS FOR SOCIAL RECONSTRUCTION.—M., W., 8:30-9:30.
Mr. Van Matre
12. PRINCIPLES OF CASE WORK.—Tu., Th., 8:30-9:30. Mr. Van Matre
21. FIELD STUDIES.—Tu., Th., 11:30-12:30. Mr. Van Matre

EVENING COURSE

212. PRINCIPLES OF CASE WORK.—M., 7:30-9:30. Mr. Van Matre

 †ZOOLOGY

PROFESSOR WIEMAN; ASSISTANT PROFESSOR DAY; INSTRUCTOR BOX;
ASSISTANT CHEE

In the advanced courses training in physics and chemistry, as well as ability to read French and German, is expected. Special facilities are afforded students pursuing courses of research.

Students who desire to be recommended as teachers of zoology in secondary schools must complete as a minimum Courses 1, 2, 5, 13a, 14a, 17a, 18a, 19b, and 20b. It is very desirable that they also do at least one years of graduate work.

*Resigned

†Properly qualified Juniors and Seniors in the College of Liberal Arts may elect courses in anatomy, bacteriology, pathology, pharmacology, and physiology in the College of Medicine, and may count these courses towards fulfilling the requirements for the A.B. degree.

FOR UNDERGRADUATES

1. ANIMAL BIOLOGY.—This course must be accompanied by Course 2.
M., W., F., 9:30-10:30. Mr. Wieman
2. ANIMAL BIOLOGY, LABORATORY.—Practical laboratory and field work to accompany Course 1.
Sec. I: M., W., 1:00- 4:00
Sec. II: Tu., Th., 1:00- 4:00
Sec. III: Tu., Th., 8:30-11:30 Miss Box
5. EVOLUTION AND HEREDITY. —Tu., Th., 11:30-12:30. Mr. Wieman
Prerequisite: Courses 1 and 2
- 13a. ELEMENTARY PHYSIOLOGY.—This course must be accompanied by Course 14a. *First semester*, Tu., Th., 8:30-9:30. Mr. Day
Prerequisite: Zoology 1, 2; or Chemistry 1a, 2a, 3b, 4b
- 14a. ELEMENTARY PHYSIOLOGY, LABORATORY.—Experimental laboratory work designed to accompany Course 13a. *First semester*, Tu., Th., 1:00-4:00. Mr. Day
- 8b. PRINCIPLES OF PHYSIOLOGY.—*Second semester*, M., W., 8:30-9:30.
Prerequisite: Courses 1, 2 Mr. Day
- 17a. COMPARATIVE ANATOMY OF VERTEBRATES.—This course must be accompanied by Course 18a. *First semester*, M., W., 10:30-11:30. Mr. Day
Prerequisite: Courses 1, 2
- 18a. COMPARATIVE ANATOMY OF VERTEBRATES, LABORATORY.—The work consists in the careful dissection and study of selected forms to accompany Course 17a. *First semester*, F., 8:30-11:30; 1:00-4:00. Mr. Day
- 19b. EMBRYOLOGY OF VERTEBRATES.—This course must be accompanied by Course 20b. *Second semester*.
Sec. I: M., W., 10:30-11:30 Mr. Wieman
Sec. II: Tu., Th., 1:00-2:00 Mr. Day
Prerequisite: Courses 1 and 2, or 13a and 14a
- 20b. EMBRYOLOGY OF VERTEBRATES, LABORATORY.—Laboratory work to accompany Course 19b. *Second semester*.
Sec. I: M., W., 1:00-4:00 Mr. Day
Sec. II: Tu., Th., 2:00-5:00 Mr. Day
Sec. III: Tu., Th., 8:30-11:30 Mr. Day

FOR UNDERGRADUATES AND GRADUATES

- 10a. MICROSCOPICAL TECHNIQUE.—Two or three credits. *First semester*,
Tu., Th., F., 1:00-4:00. Mr. Wieman
Prerequisite: Courses 1, 2
- 10b. CYTOLOGY.—Two or three credits. *Second semester*, Tu., Th.,
F., 1:00-4:00. Mr. Wieman
Prerequisite: Course 10a
29. ADVANCED ZOOLOGY.—A laboratory course dealing with special
problems for advanced students. Two or three credits. Tu.,
Th., F., 1:00-4:00. Mr. Wieman, Mr. Day

PRIMARILY FOR GRADUATES

31. RESEARCH.—Credit according to number of hours elected.
Mr. Wieman

SUMMER EXTENSION COURSES

JUNE 30—AUGUST 8, 1919

ENGLISH

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| 323. | ENGLISH COMPOSITION AND LITERATURE. | Mr. Herold |
| 340. | VOICE TRAINING AND SPEECH. | Mr. Van Wye |
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PSYCHOLOGY

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| 316. | COMPARATIVE PSYCHOLOGY. | Mr. Talbert |
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ROMANCE LANGUAGES

- | | | |
|------|---------------------|--------------|
| 310. | ELEMENTARY FRENCH. | Miss Steinau |
| 312. | ELEMENTARY SPANISH. | Miss Steinau |

WINTER EXTENSION COURSES

SEPTEMBER 29, 1919—MAY 7, 1920

BIOLOGY

312. SANITARY BIOLOGY.—W., 4:00-5:00, Woodward High School.
Mr. Benedict
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ENGLISH AND COMPARATIVE LITERATURE

320. STUDIES IN CONTEMPORARY LITERATURE.—W., 4:00-5:00, Walnut
Hills Library. Mr. Chandler
315. ENGLISH NOVEL.—Tu., 4:00-5:00, Washburn School. Mr. Stevens
322. SHAKESPEARE.—Tu., 4:00-5:00, Hughes High School.
Mr. Shipherd
-

ETHICS

321. MORAL PROBLEMS OF THE PRESENT SITUATION.—Tu., 4:00-5:00,
The Woman's City Club. Mr. Tawney
-

HYGIENE AND PHYSICAL EDUCATION

300. PERSONAL HYGIENE AND FIRST AID.—Th., 4:00-5:00, Ohio Mechanics
Institute. Dr. Morrison

COLLEGE FOR TEACHERS

ORGANIZATION

The College for Teachers is organized under the joint management of the Board of Directors of the University and the Board of Education of the city of Cincinnati.

The general oversight of the college is in charge of a Joint Committee consisting of the President of the University, a member of the Board of Directors, the Superintendent of Schools, and a member of the Board of Education.

The faculty of the college consists of the President of the University, the Superintendent of Schools professors, assistant professors, associates, and assistants in education, and members of other faculties of the University giving courses which are expressly arranged to meet the requirements of the college.

The staff of instruction consists of the members of the faculty, persons belonging to other departments of the University and assigned by the President, persons holding positions in the public schools and assigned by the Superintendent, and persons belonging to the staffs of affiliated schools.

JOINT COMMITTEE

CHARLES WILLIAM DABNEY, PH.D., LL.D.....	President of the University
ERWIN O. STRAEHLEY, M.D....	Member of the Board of Directors of the University
RANDALL JUDSON CONDON, A.M., LL.D.....	Superintendent of Cincinnati Schools
SAMUEL ACH	Member of the Board of Education

FACULTY AND STAFF OF INSTRUCTION

CHARLES WILLIAM DABNEY, PH.D., LL.D.....	President of the University
RANDALL JUDSON CONDON, A.M., LL.D.....	Superintendent of Cincinnati Schools
WILLIAM PAXTON BURRIS, A.M., L.H.D.....	Professor of Education and Dean of the College for Teachers
*JOHN WILLIAM HALL, A.M.....	Professor of Education

*Resigned

ALFRED LAWRENCE HALL-QUEST, A.M.	Professor of Education
DAVID JAMES MACDONALD, A.M.	Professor of Vocational Education
FRANK K. SECHRIST, PH.D.	Professor of Education
*GRACE I. WILLIAMS, B.S., A.M.	Professor of Home Economics
BURTIS BURR BREESE, PH.D.	Professor of Psychology
STEPHEN ELMER SLOCUM, B.E., PH.D.	Professor of Applied Mathematics
NEVIN M. FENNEMAN, PH.D.	Professor of Geology and Geography
GUY ALLAN TAWNEY, PH.D.	Professor of Philosophy
HARRIS MILLER BENEDICT, PH.D.	Professor of Botany
WHITELAW REID MORRISON, A.M., M.D.	Professor of Hygiene and Physical Education
CHARLES NAPOLEON MOORE, PH.D.	Associate Professor of Mathematics
HENRY G. HARTMAN, PH.D.	Associate Professor of Philosophy
CLARENCE ORAN GARDNER, PH.D.	Associate Professor of Political Science
FRANCES JENKINS, B.S.	Assistant Professor of Education
MARY ALMA SMITH, B.S.	Assistant Professor of Home Economics
GRACE GORDON HOOD, B.S., A.M.	Assistant Professor of Home Economics
*HELEN HAY HALM, B.S.	Assistant Professor of Home Economics
*CHARLES W. LYTLE, M.E.	Assistant Professor of Vocational Education
JOHN G. BRUEGGEMAN, E.E.	Assistant Professor of Vocational Education
WALTER H. BUCHER, PH.D.	Assistant Professor of Geology
REGINALD CHARLES MCGRANE, PH.D.	Assistant Professor of History
WILLIAM A. CROWLEY, PH.D.	Assistant Professor of Philosophy
†GRACE ANNA FRY	Assistant in Kindergarten Training
JANE CAPE, B.S.	Instructor in Dietetics
DOROTHY DUKE, B.S.	Instructor in Physical Education
ALMA SAUER, B.S.	Critic Teacher in Home Economics
SOPHIE W. BRUNHOFF, A.B.	Instructor in Physical Education
MARY MARGARET TODD, B.S.	Instructor in Textiles and Clothing
MARJORIE HILLAS, A.M.	Instructor in Physical Education
OLIVER MUMFORD NIKOLOFF, A.B.	Instructor in Physical Education
FERN SHERMAN	Instructor in Physical Education
E. LUCY BRAUN, PH.D.	Instructor in Botany
PHOEBE M. KANDEL, R.N.	Instructor in Nursing and Health
GEORGE E. DAVIS, A.M.	Instructor in Mathematics
RICHARD S. BILGER	Trade Drawing
JOHN H. CHAMBERS	Trade Science
FREDERICK M. HOLDER	Trade Drawing
CLAYTON M. HOWE, A.B.	Trade Science
C. H. KRUGER	Trade Drawing
JESSE R. MOSER	Trade Science
CLARE G. SHARKEY	Trade Mathematics
CLARENCE R. WALKER, B.S.	Trade Mathematics

*Resigned

†Absent on leave, 1919-1920

Members of the Cincinnati public school staff giving courses in the teaching of special subjects:

ASSISTANT SUPERINTENDENT ANNA ELIZABETH LOGAN, A.M.

Literature for Elementary Schools

DIRECTOR WALTER H. AIKEN	Music
DIRECTOR WILLIAM H. VOGEL	Trade Design, Art
DIRECTOR CARL ZIEGLER, M.D.	Physical Education
DIRECTOR JULIA S. BOTHWELL	Kindergarten
DIRECTOR ROLAND W. GUSS, A.M.	School Gardening
ASSISTANT DIRECTOR KATHERINE B. DABNEY, A.M.	Physical Education
MARY ELIZABETH HYDE	Art
WILLIAM P. TEAL	Art
CLARA H. DINCKEL	Art

Cooperating teachers in the Cincinnati Public Schools (1919-1920):

MAY B. HOBAN	English, Hughes High School
BERTHA EVANS WARD	English, Hughes High School
LOUISE BENTLEY	French, Hughes High School
MARY L. PERKINS	Spanish, East Side High School
R. G. WILBUR	Mathematics, Woodward High School
VIOLA N. HALL	First Grade, Cummins School
ANNA C. MARTIN	Second Grade, Fairview School
DOROTHY CUMMINS	Fourth Grade, Rothenburg School
EDITH REILLY	Fifth Grade, Raschig School
EDYTHE STEINKAMP	Sixth Grade, Bloom School
ALICE HUGHES	Seventh Grade, Hoffman School
ELSA KRAMER	Physical Education
LAURA KNIGHT	Fifth Grade, Stowe School
LOUISE MINNES	Third Grade, Stowe School

Technical instruction and training in kindergarten courses are given by the following members of the staff of the Cincinnati Kindergarten Training School:

LILLIAN H. STONE	Principal
MATILDA M. REMY	Associate Principal
FRANCES A. LEVOY	Instructor
MRS. W. E. LEWIS	Physical Training
MARIE CURTIS RAYNS	Instructor
EDITH R. HILL	Instructor
JOHN JEROME THOMPSON	Art

At the Art Academy of Cincinnati:

ELIZABETH KELLOGG	History of Art
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GENERAL REGULATIONS

The University provides for the academic and professional preparation of teachers in accordance with the following regulations. The conditions governing admission, graduation, prerequisite or parallel studies, elective studies, privileges, etc., vary with the different programs outlined below, and are definitely indicated in connection therewith in each case.

Each candidate for the B.S. degree or a diploma must file in the Registrar's office before March 1 of her Senior year a formal application for her degree. If a Senior fails to make this application, the University will not be responsible for her graduation.

I. Four-year curricula are offered to prospective teachers in elementary schools, leading to the degree of Bachelor of Science, conferred upon recommendation of the faculty of the College for Teachers.

During the first two years, students matriculated in such curricula are registered in, and are under the jurisdiction of, the McMicken College of Liberal Arts, subject to the limitations stated below. During the last two years such students are registered in, and are under the jurisdiction of, the College for Teachers.

The standard of admission to such four-year curricula is the same as that of admission to the McMicken College of Liberal Arts.

The courses taken during the first two-year period as prerequisite to programs in the College for Teachers are prescribed by the faculty of this college, after conference with the faculty of the McMicken College of Liberal Arts.

The courses which must be included in the second two-year period are determined by the faculty of the College for Teachers.

Students from other institutions who have met college entrance requirements, who are candidates for the above degree, and who offer at least two years of work, academic or professional, acceptable to the faculty of the College for Teachers for advanced standing, are registered in, and are subject to the jurisdiction of, this college.

II. The University also offers extended curricula which lead, at the end of the fourth year, to the degree of Bachelor of Arts, conferred upon recommendation of the faculty of the McMicken College of Liberal Arts, and which lead also, at the end of the fifth year, to appropriate teachers' diplomas, conferred upon recommendation of the faculty of the College for Teachers.

The courses which shall be included in such extended curricula are determined by the faculty of the College for Teachers, subject to regulations governing students who are candidates for the Bachelor of Arts degree.

Students pursuing such extended curricula are registered in, and are subject to the jurisdiction of, the College for Teachers during the fifth year only.

III. Courses are offered in home economics subjects to meet the needs of the following classes of persons:

1. Those who wish to qualify for a state teacher's certificate in vocational home economics as provided by the Ohio State Board of Education in accordance with the Smith-Hughes Act of Congress

2. Those who wish to qualify for a state teacher's certificate in home economics as ordinarily taught in public and private schools

3. Those who are preparing for positions as dietitians in hospitals, involving an understanding of the problem of nutrition and the instruction of nurses

4. Those who are preparing for the management of tea-rooms, lunch-rooms, cafeterias, and dormitories

5. Those women students in the University, including those expecting to teach, who wish to elect certain courses in home economics which are indispensable in a well-balanced curriculum for college women

6. Evening courses in home economics for teachers who wish to take the same for professional credit will be offered, if classes containing not fewer than ten members are organized.

IV. Independently, or in connection with institutions affiliated with it, the University offers special curricula, not less than two years in length, to students who have fulfilled specified entrance requirements, such curricula leading, upon recommendation of the faculty of the College for Teachers, to appropriate teachers' diplomas. Such diplomas are granted to students who have specialized in kindergarten training, art, etc., without proceeding to a degree.

Students enrolled in such special curricula are registered in, and are subject to the jurisdiction of, the College for Teachers.

Students who complete such special curricula may subsequently be recommended by the faculty of the College for Teachers for the degree of Bachelor of Science upon conditions determined by this faculty, subject, however, to the completion of two years of undergraduate work accepted by the faculty of the McMicken College of Liberal Arts.

PROGRAMS OFFERED

PROGRAM I.—*Leading to the degree of Bachelor of Science, to a State Provisional Elementary Certificate, and to the Preferred List from which appointments to positions in the elementary schools of Cincinnati are made.*

(NOTE.—Graduates whose practice teaching has not been entirely satisfactory will not be entitled to positions on the preferred lists.)

ADMISSION.—Before being admitted to this program, a student must satisfy the regular college entrance requirements and complete college courses which count, in the aggregate, sixty college credit hours, i. e., the equivalent of two years of college work. The Dean reserves the right, subject to the approval of the faculty, to refuse admission to any student whose academic scholarship is unsatisfactory.

PREREQUISITE.—The following must have been included in the subjects taken by the student in the last two years of the high school course or in the first two years of the college course. If taken in high school, the subject must have been pursued not less than four periods a week for a year; if in college, not less than three periods a week for a year.

English.—Two or three college courses counting not fewer than ten college credit hours, in addition to English I.

History-Civics.—A year's course in each of three of the following six fields: ancient history, medieval history, modern history, English history, American history or American history with civics, civics for teachers in the College for Teachers.

Not fewer than two of the foregoing courses shall be taken in college, and one course must be the course in civics for teachers in the case of all students who have not taken the fourth-year high school course in American history with civics. A student who has taken college courses in two of the specified fields may offer for the third field a course taken in the first or second year of the high school.

Science.—A year's course in each of the following three fields is strongly recommended: physical science (physics or chemistry), biological science (botany, zoology, or general biology), earth science (geology or geography).

The requirement in science to be taken in college, however, may be satisfied in one of the following three ways: (1) by taking three-hour courses in two fields; or (2) by taking a three-hour course in one field for a year and a five-hour course in another field for a semester; or (3) by taking a five-hour course in one field.

Psychology.—A three-hour course for a year in this subject is required, and may not be taken earlier than the Sophomore year of the college.

DISTRIBUTION OF WORK.—The course in psychology and one of the required courses in English, history, or science, respectively, may be distributed over the Sophomore and Junior years, as the student may elect, subject to the approval of the Dean.

COURSES REQUIRED.—During the Junior and Senior years the following courses are required:

Junior Year

Ed. 1.	History and Principles of Education	6 credits
Ed. 4a.	Psychology of School Subjects	3 "
Ed. 4b.	School Economy	3 "
Ed. 14.	Materials and Methods for Elementary English	4 "
Ed. 18.	Literature for Elementary Schools	2 "
Philosophy 5a.	Ethics	3 "
Philosophy 5b.	Ethical Interpretations	3 "

Senior Year

Ed. 2.	Theory and Practice of Teaching	6 credits
Ed. 2p.	Student-Teaching	15 "
Ed. 16.	The Teaching of Arithmetic	2 "
Ed. 20.	The Teaching of History and Civics	2 "
Ed. 22.	The Teaching of Geography	2 "

ELECTIVE COURSES.—During the Junior year the student shall elect courses in the College of Liberal Arts, which count not to exceed nine credits.

PROGRAM II.—*Leading to a Graduate Diploma in Elementary Education, to a State Provisional Elementary Certificate, and to the Preferred List* from which appointments to positions in the elementary schools of Cincinnati are made.*

ADMISSION.—This program may be completed in a single year by graduates of the College of Liberal Arts, or of other recognized colleges, provided such graduates have included the equivalent of the courses indicated below in their undergraduate studies.

Psychology 1a and 1b, or Psychology 11a and 11b

Philosophy 5a and 5b, and Education 1, 4a, 4b, 14, and 18

COURSES REQUIRED.—The same as for the Senior year under Program I above.

Graduate students pursuing this program receive pay for student teaching (see Education 2p) at the rate of one half of the initial salary for the year. They are also entitled to an initial salary equal to that received by a regular teacher the second year after appointment.

PROGRAM III.—*Leading to a Graduate Diploma in Secondary Education and to the State Provisional High School Certificate, which renders the holder eligible to the Preferred List from which appointments to positions in the high schools of Cincinnati are made.*

*See note under Program I, p. 168

(NOTE.—It is to be observed, however, that recommendations for appointments to Cincinnati high school positions are generally limited to teachers of experience, with due reference, moreover, to the principle of promotion within the service.)

ADMISSION.—This program may be completed in a single year by graduates of the College of Liberal Arts, or of other recognized colleges, provided such graduates have fulfilled the following conditions:

a. Courses equivalent to Psychology 1a and 1b, or 11a and 11b, Philosophy 5a and 5b, and Education 1, 4a and 4b, shall have been included in the undergraduate studies.

b. The subject in which the graduate wishes to qualify as a high school teacher shall have been pursued as a major in the undergraduate period, and the marks received in this subject must show high scholarship. The graduate must also be accepted by the Dean of the College for Teachers after consultation with the head of the department in which the major subject was pursued.

COURSES REQUIRED:

Ed. 3. Secondary Education	4 credits
Ed. 3p. Student Teaching	5 to 15 “
Method of Teaching Major Subject	2 to 4 “

ELECTIVES:

Graduate work in the major subject or in other approved subjects, counting enough to bring the total up to 24 credits.

When a special course in the teaching of the major subject is not offered, a substitute course in education must be taken.

Graduate students pursuing this program receive pay for student-teaching (see Ed. 3p) on the basis of the amount of actual teaching assigned each student-teacher; maximum, one third of the initial salary of a high school teacher for teaching ten hours a week. Upon completion of this program in a satisfactory manner a graduate, if accepted for appointment to a regular position in the Cincinnati high school service, begins at an initial salary equal to that received by a regular high school teacher the second year after appointment.

PROGRAM IV.—*A two-year course leading to a Teacher's Diploma, to a State Provisional Special Certificate in Kindergartening, and to the Second List* from which Kindergarten Directors in the public schools of Cincinnati are appointed.*

ADMISSION.—Before entering upon this program a student must satisfy the regular college entrance requirements, be at least eighteen years of age, and be able to sing simple songs and play the piano accompaniments.

*See note under Program I, p. 168.

COURSES REQUIRED:

Ed. 23	6 credits
Ed. 25a	3 "
Ed. 29b	3 "
Ed. 28	2 "
English 1	6 "
ELECTIVES	4 to 6 "

Approved courses in kindergarten training entitled to thirty-six credits, including fifteen credits for practice and observation in the public school kindergartens of Cincinnati.

PROGRAM V.—*A two-year course leading to a Teacher's Diploma, to a State Provisional Special Certificate in Art, and to the Second List* from which teachers and supervisors of art in the public schools of Cincinnati are appointed.*

ADMISSION.—Before entering upon this program, a student must satisfy the regular college entrance requirements and must complete an amount of work in art of approved quality equivalent to that represented by two years of study in the Art Academy of Cincinnati. It is understood, moreover, that all students are admitted upon a month's probation, during which they must give satisfactory evidence of a high degree of capability in art and show that they are otherwise qualified to pursue this program.

COURSES REQUIRED:

Ed. 23	6 credits
Ed. 25a	3 "
Ed. 29b	3 "

The courses scheduled under Art Education on p. 193.

Work at the Art Academy of Cincinnati in the mornings the first year, and on M., Tu., W., F., and S. mornings the second year.

PROGRAM VII.—*Leading to the degree of Bachelor of Science, to a State Provisional Certificate for Teachers of Defective Children, and to the Preferred List* from which appointments to positions as teachers of defectives in the schools of Cincinnati are made.*

ADMISSION.—The same as to Program I.

*See note under Program I, p. 168.

COURSES REQUIRED:

Ed. 1	6	credits
Ed. 2	6	"
Ed. 14	4	"
Ed. 18	2	"
Ed. 15	4	"
Ed. 4a	3	"
Psychology 9	4	"

PROGRAM VIII.—*A four-year course leading to the degree of Bachelor of Science, and to the State Provisional Special Certificate in Commercial Branches which renders the holder eligible to the Preferred List* from which are made appointments to positions in the Cincinnati high schools.*

ADMISSION.—Open to graduates of the Cincinnati high school commercial course (or other high school graduates with equivalent preparation) and to present and prospective teachers of commercial branches.

PROGRAM X.—*Leading to the degree of Bachelor of Science, to a State Provisional Special Certificate in Physical Education, and to the Preferred List* from which teachers of physical education in the schools of Cincinnati are appointed.*

ADMISSION.—Same as to the College of Liberal Arts.

REQUIRED COURSES in this program follow. (Substitution of other courses will be allowed in certain cases, subject to the approval of the student's Adviser.)

<i>Freshman Year</i>			<i>Sophomore Year</i>		
English 1	3	3	Modern Language	3	3
Modern Language	3	3	Psychology	3	3
Zoology 1 and 2	5	5	Social Science 5	2	2
History 15	3	3	Physiology 13a	2	
Hygiene 3	1	1	Physiology 14a	2	
Physical Education 1	1	1	History of Phys. Ed. 44	2	2
			Physical Education 8b	2	
			Hygiene 4	1	1
			Physical Education 2	1	1
<i>Junior Year</i>			<i>Senior Year</i>		
Physical Education 9	2	2	Hygiene 40	2	2
Physical Education 12	1	1	Physical Education 42	2	2
Physical Education 13b	2	2	Physical Education 15	3	3
Physical Education 14	3	3	Electives	3	3
Physical Education 16	2	2	Practice Teaching, 4 to 7½		
Physical Education 41	3	3	credits		
Education 1	3	3			
English 25	1				

See note under Program I, p. 168.

PROGRAM XI.—*Leading to the degree of Bachelor of Science, to a Graduate Diploma in Physical Education, to the State Provisional Special Certificate in Physical Education, and to the Preferred List* from which teachers of physical education in the schools of Cincinnati are appointed.*

ADMISSION.—Same as to the College of Liberal Arts.

REQUIRED COURSES in this program cover five years as follows:

Freshman Year

English 1	3	3
Modern Language	3	3
Zoology 1 and 2	5	5
History 15	3	3
Hygiene 3	1	1
Physical Education 1	1	1

Sophomore Year

Modern Language	3	3
Social Science 5	2	2
Psychology	3	3
Physiology 13a	2	
Physiology 14a	2	
Physical Education 8b	2	
Hygiene 4	1	1
Physical Education 2	1	1
Elective	3	3

Junior Year

Physical Education 44	2	2
Physical Education 9	2	2
Physical Education 14	3	3
English 25	1	
Philosophy 5a and 5b	3	3
Elective	5	5

Senior Year

Physical Education 41	3	3
Physical Education 13b	2	
Physical Education 16	2	2
Physical Education 12	1	1
Physical Education 15	3	3
Education 1	3	3
Elective	2	2

Graduate Year

Physical Education 42	2	2
Physical Education 17	1	1
Hygiene 40	2	2
Electives	3	3
Practice Teaching, 4 to 7½ credits		

PROGRAM XII.—*Leading to the degree of Bachelor of Science, and, for those who are preparing to teach, to a State Provisional Special Certificate in Home Economics, and to the Preferred List* from which teachers of home economics in the schools of Cincinnati are appointed.*

This program also leads to a State Certificate granted to those who wish to qualify as teachers of vocational home economics under the Smith-Hughes law.

*See note under Program I, p. 168.

ADMISSION:

1. Graduates of an accredited high school, or the equivalent, are admitted as *regular* students upon presentation of a certificate of scholarship approved by the Director of Admissions. Students who are thus admitted and who carry fewer than twelve hours of work are classified as *irregular* students.

2. Persons who are at least twenty years of age, and who are not able to fulfill the above requirements, may be admitted as *special* students if they are able to satisfy the Department of Home Economics of their ability to carry on successfully the courses which they desire to enter.

FOUR-YEAR CURRICULUM FOR PROSPECTIVE TEACHERS AND DIETITIANS:

Freshman Year

First Semester	Hours	Second Semester	Hours
H. E. 61	1	Chemistry 1	5
Chemistry 1	5	H. E. 29b	2
H. E. 28a	2	H. E. 1b	3
H. E. 20a	3	English 1	3
Hygiene 3	1	Hygiene 3	1
English 1	3	Physical Education 1 .....	..
Physical Education 1 .....	..	

Sophomore Year

First Semester	Hours	Second Semester	Hours
Zoology 13a, lec.	4	Botany 6b	4
14a, lab.		H. E. 22b	2
H. E. 2a	4	Economics 1	3
Economics 1	3	Chemistry 41b, lec.	4
H. E. 21a	2	42b, lab.	
Chemistry 41a, lec.	4	H. E. 30b	2
42a, lab.		H. E. 43b	2

Junior Year

First Semester	Hours	Second Semester	Hours
Education 23	3	Education 23	3
H. E. 6a	3	H. E. 8b	3
H. E. 5a	3	H. E. 24b	3
H. E. 62	1	H. E. 62	1
H. E. 40a	2	H. E. 41b	4
H. E. 27a	2	Electives	4
Electives	4		

NOTE.—Electives in the Junior year for those majoring in Foods and Nutrition should include:

Biochemistry 1	3	H. E. 3b	4
Biochemistry 2	3		

For those majoring in Clothing and Textiles:

Allied subject, possibly Art	4	H. E. 23b	4
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Senior Year

First Semester	Hours	Second Semester	Hours
Education 25a	3	Education 29b	3
H. E. 63	3	H. E. 63	3
H. E. 63p	2	H. E. 63p	2

For those majoring in Foods:

H. E. 7	2	H. E. 7	2
H. E. 4a	3	H. E. 9b	2

For those majoring in Clothing:

H. E. 25a	2	H. E. 31b	2
H. E. 26a	2	H. E. 32b	2
Electives	5 or 6		

(NOTE.—Those preparing to become dietitians will elect H. E. 44b in place of H. E. 24b in third year; and H. E. 42a and H. E. 45b in place of H. E. 40a and 41b. Sociology recommended instead of H. E. 29b. For those not preparing to teach, or to become dietitians, other substitutions in program may be made on consultation with the Adviser in charge of the major subject.)

PROGRAM XIII.—*For institutional managers, leading to a Special Certificate.*

ADMISSION.—Applicants inexperienced in home or institutional management must be at least twenty-five years of age. They must be graduates of accredited high schools, or satisfy the Committee on Admissions that an equal amount of work has been covered. They must have a fundamental knowledge of cooking. If not adequately prepared, they must take a non-credit course in cookery during the first semester in the University.

TWO-YEAR CURRICULUM IN INSTITUTIONAL MANAGEMENT

First Year

First Semester	Hours	Second Semester	Hours
H. E. 46a	5	H. E. 46b	5
H. E. 5a	3	H. E. 44b	3
English 1	3	English 1	3
*H. E. 33a	3	Accounting	3
Hygiene 3	1	Hygiene 3	1

*Substitute H. E. 21a, 1919-1920.

Second Year

First Semester	Hours	Second Semester	Hours
Zoology 13a, lec.	5	H. E. 45b	5
14a, lab.		H. E. 8b	3
H. E. 6a	3	Psychology 1	3
Psychology 1	3	Economics 1	3
Economics 1	3	H. E. 43b	2
H. E. 42a	3		

OTHER PROGRAMS

1. For those fitting themselves for positions as instructors in education, supervisors, critic teachers, or administrators in educational positions requiring experience and advanced study. To meet the needs of this class of students appropriate opportunity is given in advanced courses in education, including seminar work, such courses counting in partial fulfillment of the requirements for the higher degrees conferred upon recommendation of the faculty of the Graduate School.

2. Students who have completed Program IV or V may count the same to the extent of 60 credits in fulfillment of the requirements for the degree of Bachelor of Science conferred upon recommendation of the faculty of the College for Teachers. Such students will be awarded this degree upon the completion of two years of approved work in the McMicken College of Liberal Arts. Holders of the degree will be eligible to preferred lists from which appointments to positions in the Cincinnati public schools are made, provided their practice teaching has been approved.

3. See Vocational Education, page 185, for courses in this field.

SPECIAL COURSES

Special courses are offered to teachers in Cincinnati and vicinity, and are given on Saturdays and at hours during the week which do not conflict with the duties of the classrooms. Credit is given on the books of the Registrar for satisfactory work done in these courses.

CONFERENCES

Several conferences, individual and with groups, are conducted by members of the staff throughout the year for the purpose of assisting teachers in the city schools.

APPOINTMENT COMMITTEE

The Appointment Committee offers its services, without charge, to students seeking appointment to educational positions for which they are properly qualified. The Dean of the college, as chairman, is assisted by other members of the faculty who are familiar with the students' work.

COURSES OF INSTRUCTION

1919-1920

The following is the list of courses offered for the year 1919-1920. Certain of these courses are required of candidates for the first or preferred list of persons eligible to appointment in the Cincinnati schools. Others are intended to meet the needs of advanced students of education, as well as of teachers of experience. Courses which are prerequisite to the pursuit of the various professional programs for teachers are also included in this section, but with this exception only those which are primarily professional in character will be found here. All courses given in the University, many of which are semi-professional in character, are open to properly qualified students in the College for Teachers. (See the McMicken College of Liberal Arts section.)

EDUCATION AND TEACHING

FOR UNDERGRADUATES

EDUCATION 1. HISTORY AND PRINCIPLES OF EDUCATION.—Open to Juniors and Seniors. M., W., F., 9:30-10:30. Mr. Burris

EDUCATION 2. THEORY AND PRACTICE OF TEACHING.—One section on M., W., F., 8:30-9:30; another on M., W., F., 2:00-3:00. Mr. Hall

EDUCATION 2p. STUDENT-TEACHING.—One section in the forenoons the first semester and in the afternoons the second semester; another section in the afternoons the first semester and in the forenoons the second semester.

Students in full charge of rooms under the continuous supervision of selected cooperating teachers in the Cincinnati public schools. Fifteen credits for the year.

EDUCATION 3p. STUDENT-TEACHING.—Part-time teaching for a year under the systematic supervision of cooperating teachers in accordance with one of the following plans:

(a) Two student-teachers on half-time, carrying a high school assignment of six periods per day

(b) A student-teacher carrying a part-time high school assignment of one to three periods per day

(c) Two student-teachers on half-time, carrying a full daily program in the seventh or eighth grade

(d) Two pairs of student-teachers on half-time assignments, carrying the full daily programs of two rooms

For compensation to student-teachers see Program III, page 169.

EDUCATION 4a. PSYCHOLOGY OF SCHOOL SUBJECTS.—*First semester*, M., W., F., 2:00-3:00. Mr. Sechrist

- EDUCATION 4b. SCHOOL ECONOMY.—*Second semester*, M., W., F., 2:00-3:00.
Mr. Sechrist
- EDUCATION 9. MODERN EDUCATION.—S., 10:30-12:00. Mr. Sechrist
- EDUCATION 14. MATERIALS AND METHODS FOR ELEMENTARY ENGLISH.—
M., W., 8:30-9:30. Miss Jenkins
- EDUCATION 16. THE TEACHING OF ARITHMETIC.—One section on M.,
9:30-10:30; another on F., 3:00-4:00. Mr. Hall
- EDUCATION 18. LITERATURE FOR ELEMENTARY SCHOOLS.—F., 8:30-9:30.
Miss Logan
- EDUCATION 19. THE TEACHING OF ENGLISH.—Open to teachers in the
elementary grades. S., 8:30-9:30. Miss Jenkins
- EDUCATION 20. THE TEACHING OF HISTORY AND CIVICS.—One section on
M., 3:00-4:00; another on F., 9:30-10:30. Mr. Sechrist
- EDUCATION 21. PROJECTS FOR THE PRIMARY GRADES.—The project as an
outgrowth of experience; types of thinking required by the project;
relation of the project to handwork and other expressive activities;
relation to the formal subjects of the curriculum; individual and
group activity in completing the project. S., 9:30-10:30.
Miss Jenkins
- EDUCATION 22. THE TEACHING OF GEOGRAPHY.—One section on W.,
9:30-10:30; another on W., 3:00-4:00. Miss Jenkins
- EDUCATION 23. GENETIC PSYCHOLOGY.—Required of all students pursu-
ing programs in special fields. M., W., F., 8:30-9:30. Mr. Sechrist
- EDUCATION 24b. THE TEACHING OF ARITHMETIC.—*Second semester*, S.,
9:30-10:30. For teachers in service. Mr. Hall
- EDUCATION 25a. PSYCHOLOGY OF SPECIAL SCHOOL SUBJECTS.—Required
of students pursuing programs leading to diplomas in special fields
at the end of two years. *First semester*, Tu., Th., 3:00-4:30.
Mr. Sechrist
- EDUCATION 26a. THE TEACHING OF GEOGRAPHY.—*First semester*, S., 9:30-
10:30. For teachers in service. Mr. Hall
- EDUCATION 27. SPECIAL PROBLEMS IN TEACHING.—Th., 4:00-5:00.
1919-1920. Spelling Miss Jenkins
1920-1921. Language
1921-1922. Reading
Prerequisite: Education 14 or 19, or the equivalent
- EDUCATION 28. PRIMARY METHODS.—Limited to kindergarten students.
Th., 2:00-3:00. Miss Jenkins
- EDUCATION 29b. SCHOOL MANAGEMENT.—A course similar to Education
4b, but planned with reference to the needs of students who are
preparing for positions as teachers of special subjects. Open to

students who are pursuing programs leading to diplomas in special fields at the end of two years. *Second semester*, Tu., Th., 3:00-4:30.

Mr. Sechrist

EDUCATION 32. THE TEACHING OF ART AND HAND WORK.—To January 1, S., 8:30-11:30. Mr. Vogel

EDUCATION 34. THE TEACHING OF MUSIC.—After January 1, S., 8:30-9:45. Mr. Aiken

EDUCATION 36. THE TEACHING OF PHYSICAL TRAINING AND HYGIENE.—After January 1, S., 10:00-11:15. Dr. Ziegler

FOR GRADUATES

EDUCATION 101. PHILOSOPHY OF EDUCATION.—The method of philosophy applied in testing theories of education. The implications and applications of significant facts of biology, psychology, sociology, ethics, and logic, are considered in the effort to reach a consistent formulation of the meaning of education. Tu., 4:00-6:00.

Mr. Burris

EDUCATION 103. SECONDARY EDUCATION.—Function of the high school; programs of study; curriculum-making; lesson types; places of high school in American education; the high school teacher; pupil management; educational significance of the various studies. Tu., 4:00-6:00. Mr. Hall-Quest

EDUCATION 104. THE PROBLEMS OF ENGLISH IN THE SECONDARY SCHOOL. A consideration of the principles underlying courses in oral and written composition and literature. S., 8:30-10:30. Mr. Hall-Quest

EDUCATION 105. SEMINAR IN SECONDARY EDUCATION.—Special problems in the psychology and supervision of study. Open only to those students who have studied psychology and who have completed Education 103 or its equivalent. W., 4:00-6:00. Mr. Hall-Quest

EDUCATION 107. ADMINISTRATION OF EDUCATION.—The history and present status of the organization and administration of school systems in the United States. Special attention is given to the progress of reform in school administration during the last quarter century, and to the work of surveys in which methods of scientific measurement have been employed. W., 4:00-6:00. Mr. Burris

EDUCATION 108. CRITICISM AND SUPERVISION OF INSTRUCTION.—A course designed for graduate students and teachers who are preparing to become principals or supervisors. Tu., 4:00-6:00. Mr. Hall

EDUCATION 110. EXPERIMENTAL PEDAGOGY.—W., 4:00-6:00.

Prerequisite: Ed. 23 or 4a or their equivalents

Mr. Sechrist

EDUCATION 111. GREAT EDUCATORS.—From time to time this course will be devoted to a critical study of modern educational theories contained in the writings of educators whose influences are felt in current educational opinion and practice. Th., 4:00-6:00.

1919-1920. Herbart and Spencer

Mr. Burris

1920-1921. Froebel and Dewey

1921-1922. Locke and Rousseau

HOME ECONOMICS

The Department of Home Economics occupies the second and third floors of the Woman's Building of the University, and has splendidly equipped classrooms, laboratories, and offices for conducting its work. Lunchrooms, home economics centers in the Cincinnati public schools, and other institutions of the city provide unsurpassed opportunities for practical work.

An appropriation has been made by the Ohio State Board to maintain a practice house. The students will live in this house and obtain their home management experience under the direction of a resident instructor. A nominal fee will be charged for running expenses not included in the appropriation. Such an arrangement will probably provide a home for non-resident students.

The following courses in home economics are recommended to students in the College of Liberal Arts and in the College for Teachers. These courses are of interest to all women in the University regardless of whether they expect to teach home economics or not. Students in the College of Liberal Arts who wish to receive credit for any of the courses in partial fulfillment of the requirements for a degree should make application for permission so to count them to the faculty of that college: H. E. 20a, 21a, 61a, 1b, 2a, 28a, 29b.

FOODS AND NUTRITION

H. E. 1b. FOOD STUDY.—Food preparation, production, and manufacture. Three credits. *Second semester.* Lec., Tu., 1:00-2:00; lab., Tu., 2:00-4:00, Th., 1:00-3:00. Fee, \$10. Miss Cape

H. E. 2a. FOOD STUDY.—A continuation of H. E. 1b. Four credits. *First semester.* Lec., M., W., 1:00-2:00; lab., M., W., 2:00-4:00. Fee, \$10. Miss Cape

H. E. 3b. ADVANCED FOOD STUDY.—Menu planning, table service, marketing, etc. Four credits. *Second semester.* Lec. and lab., Tu., Th., 9:30-12:30. Fee, \$10. Miss Williams
Prerequisite: H. E. 1b, 2a

- H. E. 4a. EXPERIMENTAL COOKERY.—Comparison of methods of use, food value, and costs of materials that may be used interchangeably. Three credits. *First semester.* Lec., W., 2:00-3:00; lab., M., 2:00-4:00, W., 3:00-5:00. Fee, \$10. Miss Williams
- H. E. 5a. LARGE QUANTITY COOKERY.—Practice in the preparation and serving of food in large quantity. Three credits. *First semester.* Lec. and lab., Tu., Th., 9:30-12:30. Miss Williams
- H. E. 6a. ELEMENTARY NUTRITION.—A study of the function of the foodstuffs and their utilization by the body. Three credits. *First semester.* Lec., M., 11:30-12:30; W., 10:30-12:30. Miss Cape
- H. E. 7. ADVANCED NUTRITION.—Abstracts and discussions of experimental work and results obtained by nutrition investigators. Four credits. *First and second semesters.* Lec., M., W., 8:30-9:30. Prerequisite: H. E. 6a, H. E. 8b Miss Williams
- H. E. 8b. ELEMENTARY DIETETICS.—An application of the principles of nutrition to the feeding problem. Three credits. *Second semester.* Lec., W., 11:30-12:30; lab., M., 10:30-12:30; F., 9:30-11:30. Fee, \$10. Miss Cape
Prerequisite: H. E. 6a
- H. E. 9b. ADVANCED DIETETICS.—Practical experience in special field work. Two credits. *Second semester.* Lab., M., W., F., 9:30-12:30. Fee according to expense. Miss Williams
- H. E. 10a. DIETETICS FOR NURSES.—The principles of human nutrition and their application to the feeding problem. Three credits. *First semester.* Lec., Tu., 10:30-11:30, Th., 8:30-9:30; lab., Th., 9:30-11:30. Miss Cape
- H. E. 10b. A repetition of 10a. *Second semester.*

TEXTILES AND CLOTHING

- H. E. 20a. CLOTHING ECONOMICS.—The economic selection, purchase, and construction of garments. Three credits. *First semester.* Lec. and lab., Tu., 1:00-4:00; lab., Th., 1:00-3:00. Fee, \$5. Miss Halm
- H. E. 21a. Continuation of H. E. 20a. Two credits. *First semester.* Lab., Tu., Th., 10:30-12:30. Fee, \$5. Miss Halm
Prerequisite: H. E. 20a
- H. E. 22b. TEXTILES.—The study of textiles and the textile industry. Two credits. *Second semester.* Lec. and lab., Tu., Th., 10:30-12:30. Fee, \$5. Miss Halm

- H. E. 23b. DRESSMAKING.—Designing and making of gowns. Four credits. *Second semester*. Lec. and lab., Tu., Th., 1:00-4:00. Fee, \$5. Miss Halm
Prerequisite: H. E. 20a and 21a, H. E. 28a, H. E. 29b
- H. E. 24b. TECHNOLOGY OF SEWING.—Review of fundamental processes. A course for student teachers. Two credits. *Second semester*. M., W., 9:30-10:30. Miss Halm
Prerequisite: H. E. 20a and 21a, H. E. 22b, H. E. 28a, H. E. 29b
- H. E. 25a. MILLINERY.—Making of hats and the adapting of different designs to various types of individuals. Two credits. *First semester*. Lab., F., 2:00-5:00. One hour to be arranged. Fee, \$5. Miss Todd
Prerequisite: H. E. 20a and 21a, and H. E. 29b
- H. E. 26a. TAILORING.—Making and remodeling of coats, capes, and boys' clothing. Two credits. *First semester*. Lab., M., F., 10:30-12:30. Fee, \$5. Miss Halm
Prerequisite: H. E. 23b
- H. E. 27a. HOUSE PLANNING AND FURNISHING.—The study of house plans, building materials, house equipment and furnishing. Two credits. *First semester*. Lec., Tu., 1:00-3:00. Miss Todd
Prerequisite: H. E. 28a
- H. E. 28a. APPLIED DESIGN.—The study of applied design, color values, and harmonies of decorative design. Two credits. *First semester*. Sec. I, lab., Tu., Th., 9:30-12:30; Sec. II, F., 9:30-12:30; S., 8:30-11:30. Fee, \$5. Miss Todd
- H. E. 29b. COSTUME DESIGN.—Principles of line, color, and design as applied to present day clothing. Two credits. *Second semester*. Lab., Tu., Th., 10:30-12:30. Fee, \$5. Miss Todd
Prerequisite: H. E. 28a
- H. E. 30b. INTERIOR DECORATION.—The study of color harmony, and design of interiors, special rooms, furniture, hangings, etc. Two credits. *Second semester*. Lab., M., W., 1:00-3:00. Fee, \$5. Miss Todd
Prerequisite: H. E. 28a
- H. E. 31b. HISTORIC COSTUME.—A history of costume from ancient to modern times. Two credits. *Second semester*. Lec., M., F., 10:30-11:30. Miss Halm
- H. E. 32b. ART APPRECIATION.—A general survey of art periods. Two credits. *Second semester*. Lab., M., F., 8:30-10:30. Miss Todd
- H. E. 33a. TEXTILE ECONOMICS.—Planned for those majoring in Institutional Management. Three credits. *First semester*. Lec. and lab., Tu., 1:00-4:00; lab., Th., 1:00-3:00. Fee, \$2.50. Miss Halm

MANAGEMENT

- H. E. 40a. HOUSEHOLD MANAGEMENT.—Topics relating to income, the budget, investments, marketing, household efficiency, labor, and service. Two credits. *First semester*. Lec., Th., 1:00-3:00.
Miss Williams
- H. E. 41b. HOUSEHOLD MANAGEMENT.—Practical working out, under supervision in the practice house, of the problems stated above. Four credits. *Second semester*. Hours to be arranged. A minimum amount for living expenses is charged each student during her few weeks residence in the practice house. Miss Hood
Prerequisite: H. E. 40a
- H. E. 42a. INSTITUTIONAL MANAGEMENT.—Problems involved in the management of dormitories, lunchrooms, tea-rooms, cafeterias, and similar institutions. Three credits. *First semester*. Lec., M., W., F., 1:00-2:00. Miss Hood
- H. E. 43b. HOME NURSING AND CARE OF CHILDREN.—Methods of prevention of disease. Technique of simple nursing and first aid. Care of infants and children. Two credits. *Second semester*. Lec., F., 1:00-2:00; lab., F., 2:00-4:00. Miss Kandel
- H. E. 44b. PRACTICUM.—Practice in the activities and the problems of management involved in typical institutions. Five credits. *Second semester*. Lec. and lab., M., Tu., W., Th., 1:00-4:00; F., 2:00-4:00. Miss Hood
- H. E. 45b. PRACTICUM.—Continuation of 44b. Five credits. *Second semester* of second year of institutional course. Hours to be arranged. Miss Hood
- H. E. 46a. HOUSEHOLD SCIENCE.—A brief study of physics and inorganic chemistry as applied to the household. Arranged for those majoring in Institutional Management. Five credits. *First semester*. Lec., Tu., Th., F., 8:30-9:30; lab., M., W., 8:30-10:30. Fee, \$10. Breakage deposit, \$5. Miss Cape
- H. E. 46b. HOUSEHOLD SCIENCE.—Continuation of 46a. A brief study of the chemistry of foods, detergents, fuels, and common household supplies. Five credits. *Second semester*. Lec., Tu., Th., F., 8:30-9:30; lab., M., W., 8:30-10:30. Fee, \$10. Breakage deposit, \$5. Miss Cape

HOME ECONOMICS EDUCATION

- H. E. 61a. GENERAL SURVEY.—A survey of vocations open to women, and of the field of home economics. One credit. *First semester*. Lec., W., 9:30-10:30. Miss Hood

- H. E. 62. OBSERVATION.—Observation under supervision of the teaching of home economics. One credit each semester. *First semester*, Tu., 8:30-11:30. *Second semester*, F., 1:00-3:00. Miss Hood
- H. E. 63. METHODS OF TEACHING HOME ECONOMICS.—The teaching of home economics in the elementary and secondary schools. Three credits a semester. Lec., M., 9:30-11:30; Tu., 11:30-12:30. Prerequisite: Education 23 and H. E. 62 Miss Hood
- H. E. 63p. PRACTICE TEACHING.—Teaching home economics under supervision. Two credits a semester. Tu., Th., 8:30-12:30. Part time addition of M., W., F., 1:00-3:00. Miss Hood, Miss Sauer
- H. E. 64. ORGANIZATION AND SUPERVISION.—Problems in organization and supervision of home economics courses. Two credits. Tu., 4:00-6:00. Miss Hood
-

VOCATIONAL EDUCATION

In September, 1918, a department of vocational education was established in the College for Teachers. The office of this department is located in Room 11, Hanna Hall. Evening classes in the Cincinnati center are held at Hughes High School; day classes in McMicken Hall, University of Cincinnati. In Dayton, evening classes are held at Stivers High School; day classes at Steele High School. Announcement regarding centers not yet opened will be made later.

The staff of the new department devotes its entire attention to the work of training teachers of trades and industries and of related subjects as these are defined by the administrative body (the Federal Board for Vocational Education) in charge of the Smith-Hughes funds. The needs of at least three classes are met, namely:

- a. Vocational teachers now in service
- b. Tradesmen without teaching experience
- c. Teachers of academic subjects who possess the necessary trade knowledge and skill

ADMISSION.—Admission requirements to the different courses are:

1. For teachers of trade and industrial subjects:
 - a. Successful trade experience of not less than five years in the trade the candidate wishes to teach
 - b. Completion of an elementary school course, or its equivalent
 - c. Promise of becoming a successful teacher

2. For teachers of related subjects:

- a. Completion of at least two years of an approved technical college course and at least one full year of practical trade experience
- b. Graduation from an approved high school course, and three full years of practical trade experience. (Such candidates must be approved by the State Board of Education.)
- c. Successful high school teaching experience and the required trade experience
- d. Successful experience in teaching manual arts subjects, and at least one year of practical trade experience

REGISTRATION.—Registration for these courses will take place at Hughes High School on the Wednesday and Thursday evenings of the week preceding registration for evening school work in the city schools.

TUITION AND FEES.—In case candidates qualify for entrance to the University and pay the required fees, the credits secured may be applied towards a degree. For others no fee is required.

CERTIFICATION.—The requirements for certification, as announced by the State Board, are:

For teachers of trade and technical subjects in Smith-Hughes (state-aided) classes:

Beginning September 1, 1919, shop and technical teachers in day vocational schools must have completed at least 128 hours of professional training; and, beginning September 1, 1920, at least 256 hours.

For teachers of subjects in part-time and evening schools:

Beginning September 1, 1919, teachers of part-time and evening classes must have completed at least 128 hours of professional training; and, beginning September 1, 1920, at least 256 hours.

To candidates who complete the program of studies consisting of not less than 256 hours, certificates of proficiency to teach trade subjects, valid for one year, will be issued by the State Board. In case the candidate is a high school graduate, he will be granted a state four-year provisional certificate upon satisfactory completion of the course, provided he is especially recommended by the Director of Teacher Training.

COURSES OF INSTRUCTION.—The following courses in Vocational Education are being offered during the year 1919-1920. All courses are organized and conducted on the semester basis. A course listed as thirty-two hours is equivalent to two semester hours, and is so recognized in case the student has fully met the University entrance requirements.

1. Theory and Organization of Vocational Education
2. Theory of Teaching Trades
3. Practice Teaching
4. Vocational Guidance

5. Trade English
 6. Trade Mathematics
 7. Trade Science
 8. Trade Drawing
 9. Trade Analysis
 10. Vocational Psychology
 11. History of Industrial Education
 12. Relation of Government and Industry
 13. Problems in Vocational Education
 14. Shop Class Management
-

COURSES IN LIBERAL ARTS DEPARTMENT

Required, prerequisite, or parallel, as indicated under the various programs outlined on pp. 168-176.

AGRICULTURE 1b. HOME AND SCHOOL GARDENING.—*Second semester.*
S., 10:30-12:00; field or laboratory work, S., 8:00-10:30.

Mr. Guss

AGRICULTURE 2. GARDEN PRACTICE AND TEACHING.—A continuation through the summer of Agriculture 1b. Hours to be arranged.

Mr. Guss

NOTE.—The above courses may enable persons of sufficient previous preparation to qualify for positions as teachers of gardening in the city schools; also to meet the state requirement for elementary teachers of agriculture in village and rural schools.

BOTANY 3. PLANT ECOLOGY.—Adaptations of plants to environmental conditions. Lectures on the typical vegetation of climatic zones of the earth, and on the plant societies of the Cincinnati region. Tu., Th., 1:00-2:00.

Mr. Benedict

BOTANY 4. PLANT ECOLOGY LABORATORY.—Laboratory and field work. Tu., 2:00-4:00, with four additional field trips during the year.

Miss Braun

BOTANY 5. SYSTEMATIC BOTANY.—One lecture, with two laboratory or field trips per week, on the recognition and relationship of the local plants. Hours to be arranged.

Miss Braun

GEOLOGY AND GEOGRAPHY 14. GENERAL GEOLOGY FOR TEACHERS.—Lec., S., 8:30-10:30; field or lab., 10:30-12:30.

Mr. Fenneman

GEOLOGY AND GEOGRAPHY 16. ADVANCED PHYSIOGRAPHY OF THE UNITED STATES.—Lec., W., 4:00-6:00; S., 10:30-11:30. Prerequisite: Course 1 (or 14) and Course 9 (or 19).

Mr. Fenneman

Course 16 runs through more than one year, but may be entered at the beginning of any semester.

GEOLOGY AND GEOGRAPHY 19.—HISTORICAL GEOLOGY.—For teachers who have had Course 14. Lec., S., 8:30-10:30; field or lab., 10:30-12:30.
Mr. Bucher

HISTORY 15. GENERAL COURSE IN AMERICAN HISTORY.

Sec. I: M., W., F., 1:00-2:00

Sec. II: Tu., Th., F., 1:00-2:00

Mr. McGrane

MATHEMATICS 26. HISTORY AND TEACHING OF MATHEMATICS.—Required of Seniors and graduates who expect to teach mathematics in the secondary schools, and recommended to all students who expect to teach mathematics in the 6th, 7th, or 8th grade. Given at 4:00 p.m., two days per week; three hours' credit.
Mr. Slocum

MATHEMATICS 50. COURSE FOR TEACHERS OF ELEMENTARY MATHEMATICS. Review of elementary and secondary mathematics, with advanced study of mathematical principles. Required in the Junior or Senior year of all students who expect to teach mathematics in the 6th, 7th, or 8th grade of the elementary schools, unless such students have taken Math. 1 in the College of Liberal Arts. W., 4:30-6:00; S., 10:30-12:00.
Mr. Moore

PHILOSOPHY 5a. ETHICS.—*First semester.*

Sec. I: M., W., F., 10:30-11:30

Sec. II: M., W., F., 2:00-3:00

Mr. Tawney, Mr. Crowley

Prerequisite: Two years of university work

PHILOSOPHY 5b. ETHICAL INTERPRETATIONS.—*Second semester.*

Sec. I: M., W., F., 10:30-11:30

Sec. II: M., W., F., 2:00-3:00

Mr. Tawney, Mr. Crowley

Prerequisite: Course 5a

PHILOSOPHY 8a. AESTHETICS.—The theory of art and the beautiful.
First semester. Tu., Th., 1:00-2:00.
Mr. Hartman

PHILOSOPHY 8b. AESTHETICS.—The theory of art and the beautiful.
Second semester. Tu., Th., 1:00-2:00.
Mr. Hartman
Prerequisite: Psychology 1a and 1b

POLITICAL AND SOCIAL SCIENCE 8. CIVICS FOR TEACHERS.—The aim of this course is to prepare prospective teachers to give instruction in civics in the schools. M., W., F., 1:00-2:00.
Mr. Gardner

PSYCHOLOGY 11a. EDUCATIONAL PSYCHOLOGY.—Open to students who are preparing to teach. *First semester.* M., W., F., 3:00-4:00.
Mr. Breese

PSYCHOLOGY 11b.—A continuation of Psychology 11a. *Second semester.* M., W., F., 3:00-4:00.
Mr. Breese

PSYCHOLOGY 6a. ADVANCED EDUCATIONAL PSYCHOLOGY.—*First semester.* Two credit hours. Hours to be arranged.
Mr. Breese

PSYCHOLOGY 9. MENTAL AND PHYSICAL TESTS.—Laboratory methods.

Two credits per semester. Tu., 3:30-5:30. Mr. Breese

In connection with Course 9, the department maintains a psychological clinic for school children on Tuesday mornings from 9:00 to 12:30. Students in Psychology 9 may by special arrangement observe the work of the clinic.

HYGIENE AND PHYSICAL EDUCATION

The Department of Hygiene and Physical Education offers courses for playground and physical education teachers. The entrance requirements are those to the College of Liberal Arts and the College for Teachers. Two programs are outlined on pp. 172 and 173, (Programs X and XI).

PHYSICAL EDUCATION 1. PRACTICE (required of Freshman men and women).—Practical work in the gymnasium, two hours a week.

PHYSICAL EDUCATION 2. PRACTICE (required of Sophomore men and women).—Practical work in the gymnasium, two hours a week.

HYGIENE 3. PERSONAL HYGIENE (required of Freshman men and women). Considers the meaning and importance of health in relation to life; motives for hygienic living; facts and principles relating to the body's construction, development, and function of value in living; methods of first aid to the injured. Lectures, reading, and reports. One credit per semester. Dr. Morrison

PHYSICAL EDUCATION 8b. APPLIED PHYSIOLOGY.—Presents the essential physiological facts with reference to their application in exercise. *Second semester.* Two credits. Lec. and lab., M., W., 8:30-9:30.

Dr. Morrison

PHYSICAL EDUCATION 9. APPLIED ANATOMY AND KINESIOLOGY.—The structure of the human body with reference to growth, development and movement. The kinesiology of the extremities and trunk will be fully given. Lectures and demonstrations. Tu., Th., 10:30-11:30. Two credits per semester. Dr. Morrison

PHYSICAL EDUCATION 12. CORRECTIVE EXERCISES.—This course presents the causes producing faulty posture, methods of correction, and practice in individual corrective work with abnormal cases under supervision. Lectures and practice. Lec., one hour; lab., one hour. Dr. Morrison

PHYSICAL EDUCATION 13b. NORMAL DIAGNOSIS AND ANTHROPOMETRY.—Facts relating to normal conditions of body health and methods for recognition of abnormalities. No attempt is made to diagnose disease. Students will have opportunity to see cases showing the difference between the normal and the abnormal. Lectures and reports. *Second semester.* Two credits. Dr. Morrison

PHYSICAL EDUCATION 14. ELEMENTARY PRACTICE (women).—Instruction and practice in dancing, athletics, swimming, and gymnastics. Three credits a semester. The hours are as follows:

Dancing—M., W., F., 9:30-10:30

Athletics—Tu., Th., 9:30-10:30

Gymnastics—M., W., F., 3:00-4:00

Swimming—Two hours to be arranged Miss Hillas, Miss Duke

PHYSICAL EDUCATION 14. ELEMENTARY PRACTICE (men).—Three credits a semester.

(a) Gymnastics.—Practice in gymnastic forms of the classroom, playground, and gymnasium. Two hours a week and one hour a week practice in teaching gymnasium to the class. Tu., Th., F., 9:30-10:30. Mr. Nikoloff

(b) Coaching of Athletic Sports.—Instruction and practice in the sports of football, basketball, track, baseball, and tennis. Practice hours to be arranged. Three hours a week.

Mr. Nikoloff, Mr. Chambers

(c) Dancing and Swimming.—Folk and country dances; one hour a week, F., 2:00-3:00; swimming: two hours a week, hours to be arranged. Mr. Nikoloff

PHYSICAL EDUCATION 15. ADVANCED PRACTICE (women).—Three credits per semester. Advanced work in practical instruction, including dancing, gymnastics, games, athletics, and swimming as follows:

Dancing—M., W., 10:30-11:30

Dramatic Games—F., 10:30-11:30

Gymnastics—M., W., 1:00-2:00

Athletics—M., W., 3:00-4:00

Playground Games—F., 3:00-4:00

Swimming—Two hours to be arranged Dr. Morrison, Miss Hillas

PHYSICAL EDUCATION 15. ADVANCED PRACTICE (men).—Three credits a semester. Advanced work in practical instruction, including dancing, gymnastics, games, athletics, and swimming as follows:

Dancing—M., W., 10:30-11:30

Dramatic Games—F., 10:30-11:30

Gymnastics—M., W., 1:00-2:00

Athletics—M., W., 3:00-4:00

Playground Games—F., 3:00-4:00

Swimming—Two hours to be arranged Mr. Nikoloff

PHYSICAL EDUCATION 16. FESTIVALS.—Includes a study of the festival from an historical point of view, its use as an art form, and its possibilities and value in a recreational and educational program. Opportunity will be afforded for writing and planning a school and playground festival. Special emphasis will be laid upon its use as a

form of community recreation. This course also includes the use of different musical forms in dancing, drills, and festivals, and practice in recognition of the common forms for school and gymnasium. Two credits a semester. Two hours a week. Tu., Th., 2:00-3:00. Miss Dabney

PHYSICAL EDUCATION 17. ADVANCED PRACTICE (women).—Includes advanced work in dancing. One credit a semester. M., W., 2:00-3:00. Miss Hillas

HYGIENE 40. EDUCATIONAL HYGIENE.—The general health problem involved in the life of the individual, the community, the state, the nation, with reference to heredity, environmental influences, growth and developmental changes, motives and means of achievement. The work will be related to the child in the environment of the school. It will include health examination of children; unhygienic features of school life; improvement in the school environment; school sanitation; hygiene of instruction; physical life of the child out of school. Lectures, reading, and reports. Two credits a semester. Tu., 4:00-6:00. Dr. Morrison

PHYSICAL EDUCATION 41. THE TEACHING OF PHYSICAL EDUCATION.—Presents the theory of physical education with reference to educative, biologic, and social ends; considers organization and methods, and gives observation of and practice in teaching, with criticism and suggestions. Lectures, reading, and practical work. Three credits. Lec., W., 4:00-6:00; practice hours to be arranged. Dr. Morrison

PHYSICAL EDUCATION 42. FUNDAMENTALS OF PLAY AND RECREATION.—The nature and function of play and its value in a civic and educational program. Theories of play; child nature and basis for determining certain types of play activities; organization of these activities; equipment of a playground; administration of play and recreation systems. Lectures, reading, reports, and field work. Two hours a week; one hour during the second semester is given to observation and practice. M., 4:00-6:00. Miss Dabney

PHYSICAL EDUCATION 44. HISTORY OF PHYSICAL EDUCATION.—Lectures, collateral reading, reports, and discussions. This course deals with the following topics: bodily activities and play of primitive man; physical education among the different civilized races before and during the Middle Ages, with particular attention to the Greeks and Romans; modern movement and development of national systems of physical education in Sweden, Germany, and England; present progress in this field of education in the United States and in different European countries, with a comparison of the different so-called "systems" of physical training; principles underlying the science of physical education. Two credits a semester. Tu., Th., 2:00-3:00. Mr. Nikoloff

KINDERGARTEN TRAINING

The following courses in kindergarten training are given at the Cincinnati Kindergarten Training School. A special announcement giving full information may be had upon application to the Registrar of the school.

For conditions governing college students who are fitting primarily for positions in kindergartens, see Program IV, page 170, and "Other Programs," page 176.

- KGTN. 1. GIFTS.—Tu., 8:30-10:00; Th., 1:30-3:00. Miss Stone
- KGTN. 2. HANDWORK.—Tu., F., 2:30-4:30. Miss Stone and Miss LeVoy
- KGTN. 3. RHYTHMS AND DRAMATIC PLAYS, SONGS, AND GAMES.—M., W., 3:30-4:30. Miss Fry
- KGTN. 4. THEORY.—Tu., 1:00-2:00; Th., 8:30-10:00. Miss Stone
- KGTN. 5. STORIES AND CHILDREN'S LITERATURE.—Hours to be arranged. Miss Remy
- KGTN. 6a. PROGRAM CONSTRUCTION.—Tu., 10:00-11:00. Miss Bothwell
- KGTN. 6b. PROGRAM PLANS.—Juniors and Seniors. Tu., 1:30-2:30; 3:30-4:30. Miss Stone, Miss Fry
- KGTN. 7. OBSERVATION.—Tu. and F. mornings. Miss Stone, Miss Fry
- KGTN. 8. PRACTICE TEACHING.—M., W., and F. mornings. Miss Stone, Miss Fry
- KGTN. 9. ORGANIZATION OF MOTHERS' MEETINGS.—Th., 11:00-12:00. Miss Laws, Miss Remy
- KGTN. 10. ART.—M., 1:30-3:30. Mr. Thompson
- KGTN. 11. MUSIC.—Hours to be arranged. Mr. Aiken, Miss Fry, Miss Rains, Miss Hill
- KGTN. 12. HYGIENE AND PHYSICAL TRAINING.—Hours to be arranged.
- KGTN. 13. DIRECTORS' CONFERENCE.—Lectures, discussion, suggestions for program work. W. afternoons. Miss Bothwell, Miss Fry, Miss Stone

ART COURSES

The following courses of instruction, when not otherwise specified, are given at Hughes High School.

First-year students will take Courses 2, 3, 4, and 5 or 9. During the forenoon of each day they will work at the Art Academy. They will also take, at the University, Education 23.

Second-year students will take Courses 1, 6, 7, 8, and 5 or 9. On forenoons, except Thursday, they will continue work at the Art Academy. At the University they will take Education 25a and 29b.

- ART 1. THEORY AND PRACTICE OF TEACHING ART.—F., 1:30-3:30.
Miss Hyde
- ART 2. WATER COLORS AND CRAYONS.—Tu., 1:00-4:00. Mr. Teal
- ART 3. DESIGN AND APPLICATIONS.—W., 1:00-4:00. Miss Hyde
- ART 4. CONSTRUCTION.—Th., 1:00-4:00. Miss Hyde
- ART 5. PICTORIAL COMPOSITION.—Given in alternate years. M., 1:00-4:00.
Mr. Teal
- ART 6. ADVANCED DESIGN.—A further study of questions taken up in Art 3. W., 1:00-4:00. Mr. Teal
- ART 7. OBSERVATION AND PRACTICE TEACHING.—One day per week in the public elementary and secondary schools under critical supervision.
Miss Hyde, Mrs. Dinckel, Critics
- ART 8. HISTORY OF ART.—At the Art Museum. Tu., 2:00-4:00.
Miss Kellogg
- ART 9. MECHANICAL DRAWING.—Given in alternate years in place of Art 5. M., 1:00-4:00. Mr. Vogel

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COLLEGE OF ENGINEERING AND COMMERCE

FACULTY AND INSTRUCTORS

- CHARLES WILLIAM DABNEY, PH.D., LL.D.....President of the University
JERMAIN GILDERSLEEVE PORTER, PH.D.....Director of the Observatory
and Professor of Astronomy
FREDERICK CHARLES HICKS, PH.D.....Sinton Professor of Economics and
Commerce
HARRIS HANCOCK, PH.D., SC.D.....Professor of Mathematics
MAX POLL, PH.D.....Professor of the Germanic Languages
HERMAN SCHNEIDER, SC.D...William Thoms Professor of Civil Engineering
and Dean of the College of Engineering and Commerce
STEPHEN ELMER SLOCUM, B.E., PH.D...Professor of Applied Mathematics
NEVIN M. FENNEMAN, PH.D.....Professor of Geology and Geography
FRANK WADLEIGH CHANDLER, PH.D.....Professor of English and
Ropes Professor of Comparative Literature
ALEXANDER MASSEY WILSON, M.E....Professor of Electrical Engineering
GUSTAVE MAURICE BRAUNE, C.E.....Professor of Civil Engineering
HARRY SHIPLEY FRY, PH.D....Professor of Chemistry and Director of the
Chemical Laboratory
ALEXANDER LEWIS JENKINS, M.E....Professor of Mechanical Engineering
GEORGE W. BURNS, LL.B.Assistant Dean
ORLAND R. SWEENEY, PH.D.....Professor of Chemical Engineering
WHITELAW REID MORRISON, A.M., M.D...Professor of Hygiene and Physical
Education
SIDNEY H. GUTHRIE, CAPT., C.A.C....Professor of Military Science and
Tactics
WILLIAM C. WILLARD, C.E., M.SC....Professor of Industrial Engineering
CLYDE WILLIAM PARK, A.M.....Professor of English
LOUIS BRAND, PH.D., E.E.....Professor of Mathematics
ROBERT CLYDE GOWDY, PH.D.....Professor of Physics
HENRY MAX GOETTSCH, PH.D...Associate Professor of Industrial Chemistry
CLARENCE D. STEVENS, A.M.....Associate Professor of English
EARL FREDERICK FARNAU, PH.D...Associate Professor of Organic Chemistry
RALPH EDWARD OESPER, PH.D., Associate Professor of Analytical Chemistry
EDWARD S. SMITH, M.E., PH.D.....Associate Professor of Mathematics
JOSEPH HENRY KINDLE, A.M.....Associate Professor of Mathematics
BENJAMIN CARLTON VAN WYE, A.M...Associate Professor of Public Speaking
EDGAR K. RUTH, B.S., C.E.....Assistant Professor of Civil Engineering
WALTER H. BUCHER, PH.D.....Assistant Professor of Geology
OTTO CHARLES VON SCHLICHTEN, A.B....Assistant Professor of Geology

HUBERTIS MAURICE CUMMINGS, PH.D.	Assistant Professor of English
REGINALD C. McGRANE, PH.D.	Assistant Professor of History
FRED A. MOLBY, PH.D.	Assistant Professor of Physics
CHARLES B. HOFFMANN, M.E., E.E.	Assistant Professor of Electrical Engineering
*STEPHEN J. FELTON, MET.E.	Assistant Professor of Metallurgy
*ELLERY K. FILES, A.M.	Assistant Professor of Chemistry and Chemist, Bureau of City Tests
CHARLES ALBERT JOERGER, M.E.	Assistant Professor of Mechanical Engineering
HAROLD F. JANDA, C.E.	Assistant Professor of Civil Engineering
*CHARLES S. CARROLL, C.E.	Assistant Professor of Civil Engineering
BART JENNINGS SHINE, C.E.	Assistant Professor of Mechanical Engineering
ABNEY PAYNE, CAPT., C.A.C.	Assistant Professor of Military Science and Tactics
ROY W. GROWER, 1ST LT., ENG.	Assistant Professor of Military Science and Tactics
FREDERICK W. WEISSMANN, PH.C.	Supervisor of Special Lectures in Technical Chemistry
CHARLES WATKINS BROWN	Mechanician and Instructor in Laboratory Arts
*CHARLES ESTES WOOD, MET.E.	Instructor in Metallurgy
EDWARD A. EBERHARDT, A.M.	Instructor in Modern Languages
WILLIAM CARL OSTERBROCK, E.E.	Instructor in Electrical Engineering
*CLIFFORD J. ROLLE, PH.D.	Instructor in Chemistry
BOYD CHAMBERS, A.B.	Director of Athletics
GEORGE E. ZUGELTER, M.E.	Instructor in Mechanical Engineering
MEYER SALKOVER, A.M.	Instructor in Mathematics
MERWYN C. RODI, A.B., B.E.E.	Instructor in Electrical Engineering
H. CALVERT MESSINGER, M.E.	Coordinator in Mechanical Engineering
THOMAS B. MULLIN, B.S.C., M.S.	Instructor in Civil Engineering
WALTER C. PHILLIPS, PH.D.	Instructor in English
EDGAR P. BENGERT, A.M.	Instructor in English
ELMER W. COLEMAN, E.E.	Instructor in Electrical Engineering
VINCENT H. DRUFNER	Coordinator in Commercial Engineering
RALPH L. LANGENHEIM, C.E.	Instructor in Civil Engineering
FAY A. NORTON, E.E.	Coordinator in Electrical Engineering
JOSEPH O. O'CONNER	Mechanician and Instructor in Chemistry
HENRY A. WOLSDORF, M.E.	Instructor in Mechanical Engineering
WILLIAM H. CREIGHTON	Mechanician and Instructor in Laboratory Arts
LOWELL M. ALEXANDER, E.E., A.M.	Instructor in Physics
GEOFFREY A. GRAY, A.M.	Instructor in Chemistry and Chemist, Bureau of City Tests
PETER SCHERRER	Instructor in Lecture Demonstrations and Chemical Supply Agent

*Resigned.

ADMISSION

REGULAR STUDENTS

REQUIREMENTS FOR ADMISSION

Candidates for admission as undergraduates must be at least **sixteen** years of age and must present fifteen units, to be distributed as follows:

ENGLISH.—Three units

ALGEBRA.—One unit

PLANE GEOMETRY.—One unit

SOLID GEOMETRY.—One half unit

HISTORY.—One unit

In addition to these specific requirements the candidate must offer five and one half units from the following: English, mathematics, language, history, physics, chemistry, zoology, botany, physical geography, commercial geography, astronomy, or physiology.

The remaining three units shall constitute a "free margin;" that is, the University will accept any three units which the secondary schools themselves credit towards graduation.

For further information regarding the procedure in connection with the entrance examinations, the number of units that may be offered in any subject, definitions of each unit or group of units, and admission on certificate from accredited schools, consult the paragraphs under those heads in the section of this catalogue relating to the College of Liberal Arts.

ENTRANCE CONDITIONS AND ADMISSION TO ADVANCED STANDING

All students must satisfy the entrance requirements in mathematics. Students who are deficient in not more than two units of the fifteen required for admission, with the exception of those required in mathematics, may be admitted conditionally to the College of Engineering and Commerce. All such entrance conditions will be removed in case the student passes in all of his Freshman work; otherwise, he will be required to pass entrance examinations to satisfy said conditions before he will be allowed to register for his second year of work at the University.

PROVISIONAL GRADE SYSTEM

On March 9, 1912, the faculty of the College of Engineering adopted the following provisional grade system:

1. **ENTRANCE SUBJECTS.**—Students admitted on certificate will be expected to have a working knowledge of all subjects on which the Freshman subjects depend. Failing to show such working knowledge, any student, regardless of how he is admitted, may be conditioned in a subject by his instructor, and be required to show proficiency, to the satisfaction of the instructor, within a period not to exceed four weeks. Should he fail to acquire this working knowledge within the prescribed time, his case will be reported to the faculty, who may give him an entrance condition, which must be removed by examination before the Freshman subject can be repeated.

2. **ADVANCED STANDING.**—Students who present credits from approved colleges will be admitted to advanced standing as heretofore, but if it becomes evident that a student's preparation in prerequisite studies is inadequate, he will be conditioned by his instructor for a period not exceeding four weeks. If at the end of this time he still lacks a working knowledge of the subject, his case will be brought to the attention of the faculty, at whose discretion he may be required to repeat in class the prerequisite course in which he is deficient.

3. **DEGREES.**—By a ruling of the faculty March 9, 1912, the words "satisfactory completion of a course" were given the following interpretation: Since the subjects in engineering courses are definitely prescribed and are nearly all graded in a series of prerequisite and advanced studies, students of all classes will be required to show a working knowledge of related subjects belonging to earlier years of their course. Any student who fails to show a working knowledge of prerequisite studies will be conditioned and required to prove to the satisfaction of the instructor—within a period not exceeding four weeks—that he has acquired the necessary working knowledge of the subject. Should he fail to do this, his case will be automatically reported to the faculty, at the discretion of which he may be required to repeat the prerequisite course. This regulation affects all students from the date of its adoption.

All applications for advanced credit must be made within three weeks after matriculation to the heads of the departments in which advanced standing is desired. Students may be admitted to advanced standing either upon presentation of a certificate from a college of approved standing or by examination. All students applying for advanced standing must first have satisfied the entrance requirements in the same manner as regular students.

Students from other universities may enter the cooperative course not later than the beginning of the third year. The question of scholastic requirements shall be determined by the Committee on Advanced Standing, and the matter of shop work shall be taken care of by the head of the department.

*ADMISSION BY EXAMINATION

†SCHEDULE OF ENTRANCE EXAMINATIONS

*ADMISSION ON CERTIFICATE FROM ACCREDITED
SCHOOLS

**SPECIAL STUDENTS

FELLOWSHIPS, SCHOLARSHIPS
AND PRIZES

In the year 1906 the Lodge & Shipley Machine Tool Company donated two loan scholarships of the amount of \$100 each to two students of the cooperative course in engineering for the payment of their University fees.

In 1917 Mr. Frederick A. Geier donated "The Frederick A. Geier Students' Loan Fund." This fund yields an income of \$1,000 a year, which is used to assist students in the mechanical engineering cooperative course.

The E. I. du Pont de Nemours Powder Company offered for the session 1919-1920 a fellowship of \$600 to a student doing graduate work in chemistry or in chemical engineering.

For the fellowships, scholarships, and prizes of the various colleges, consult their several announcements.

GENERAL REGULATIONS

Each student shall, at the beginning of the year, leave his local address at the office of the Registrar and shall promptly report all subsequent changes of address.

‡UNIT OF INSTRUCTION

ABSENCES

All absences of regular students from class work must be accounted for to the heads of the departments concerned. Absences not reported within a week after the students' return to the University shall rank as unexcused.

*See page 103.

†See pages 101, 102.

**See page 111.

‡See page 118.

GRADES

The scale of marks for recording grades is as follows: A, 90-100; B, 80-89; C, 70-79; D, 60-69—passed; E, 50-59—conditioned; F, 0-49—failed.

A student who has failed in any subject must register for that subject the next time it is given in the course, and may not register for any advanced subject whose hours conflict with the subject in which he has failed.

PROBATION

A student in the College of Engineering and Commerce who receives a grade below "D" in one half of his work at the mid-term or at the end of any semester, is put upon probation for the next half semester of college work. Such a student, if similarly delinquent at the end of his probation¹ ceases to be a member of the University.

If it is necessary to place a student upon probation a second time, after an interval has elapsed since the first time, it is within the power of the Dean to dismiss the student as soon as his grades fall below "D" in one half of his work.

*WITHDRAWAL

*HONORABLE DISMISSAL

DEGREES

The technical degrees of Civil Engineer, Chemical Engineer, Electrical Engineer, Mechanical Engineer, and Metallurgical Engineer, are given to those students of the cooperative course in engineering who complete satisfactorily the work scheduled under the respective departments.

The degrees of Bachelor of Civil Engineering, Bachelor of Chemical Engineering, Bachelor of Electrical Engineering, and Bachelor of Mechanical Engineering are given to regular students who complete satisfactorily the work of the four-year course in engineering scheduled under the respective departments.

The degree of Bachelor of Science in Commerce is given to those students of the cooperative course in commerce and administration who complete satisfactorily the work scheduled under the respective departments.

Candidates for the degrees specified above must spend their last year of study in residence in Cincinnati.

Each candidate for a degree must file in the Registrar's office before March 1 of his Senior year a formal application for his degree. If a Senior fails to make this application, the University will not be responsible for his graduation.

Degrees are not conferred *in absentia*, except by special permission from the President.

¹See page 119.

THE COOPERATIVE SYSTEM IN ENGINEERING

PLAN OF INSTRUCTION

The College of Engineering and Commerce of the University of Cincinnati offers two courses: a four-year theoretical course, and a five-year cooperative course in which students spend alternate bi-weekly periods in practical engineering work and at the University.

In the cooperative plan, the practice of engineering is taught in a shop or on a railroad under actual commercial conditions, and the science underlying the practice is taught in the University. The students are divided into two sections, which alternate every two weeks; that is to say, during one bi-weekly period, one half of the students are at the University and one half are in the factories; at the beginning of the next two-week period the sections are changed, those who were at the University going to the shops, and those who were in the shops going to the University. Briefly, it is the aim of the cooperative course to give the student a thorough training in the theory and practice of engineering.

The cooperative course is of five years' duration, eleven months in the year. A vacation, which is divided between the two students of each pair, extends from the middle of August to the middle of September.

Students who have had no practical experience are required to begin their practical work during the month of July and to work full time until college opens. Their entrance is, in a measure, dependent upon the character of the work done during this probationary period. Students who have had sufficient experience are permitted to enter in September.

Cooperative students are required to obey all regulations of the company with which they work, and are subject to all existing labor conditions and laws, including those pertaining to liability for accident.

The entrance requirements for this course are precisely the same as for the regular four-year course. The theoretical work at the University is as thorough as the work given in the regular four-year course. None of the courses is abridged and none is omitted.

Applications and correspondence concerning admission to the cooperative course should be addressed to the Dean of the College of Engineering and Commerce prior to July 1 preceding the opening of the session.

Satisfactory board and lodging may be procured in the neighborhood of the University at prices ranging from \$7 to \$9 a week. The University recommends the boarding houses to the students.

WAGES

Cooperative students are not held to a standard schedule of wages, but are paid for their work in the shops at the same rate as other employees. The minimum rate paid cooperative students who have had no previous practical experience is 25 cents an hour, and this rate increases $2\frac{1}{2}$ cents an hour every six months. Most concerns start cooperative students at a little higher rate than this minimum rate.

In railroad work, contracting work, and traction company work, students are paid at the prevailing rate of regularly employed men; thus the rate of beginners in track gang work is 38 cents an hour; in bridge work, 45 cents an hour; in switch and signal work, 45 cents an hour; in street paving work, 35 cents an hour; in car barn work, 38 cents an hour; and so on.

Students with previous experience are paid what their services are worth. The University makes no guarantee over the minimum scale agreed upon, but uses every effort to place students to their best financial and educational advantage. Students who begin at the minimum rate are not held to this rate if their abilities are such that they can earn more. The wages are paid directly to the students by their employers for the actual time worked in the shops. Machine shops work 48 hours a week; foundries, traction companies, and railroads, 60 hours a week.

COURSES OFFERED

Cooperative courses are offered in chemical engineering, civil engineering, electrical engineering, mechanical engineering, metallurgical engineering, and commerce.

THE SUMMER TERM

The summer term begins one week before commencement in June, and continues for ten weeks, the students working in bi-weekly periods, as in the winter term.

SUMMARIZED INFORMATION

EXPENSES

TUITION AND LABORATORY FEES

No fees are payable until registration day in September.

The average first year's tuition and fees for non-residents amount to \$169, of which \$94.50 is payable in September and the balance in February.

The average first year's tuition and fees for residents amount to \$119, of which \$69.50 is payable in September and the balance in February.

NON-RESIDENTS

<i>Course</i>	<i>1st Year</i>	<i>2d Year</i>	<i>3d Year</i>	<i>4th Year</i>	<i>5th Year</i>
B. S. C.....	\$169.00	\$171.50	.....	.....	.....
C. E.	174.00	166.50	\$162.00	\$139.00	\$139.00
Ch. E.	169.00	186.50	212.00	173.00	172.00
E. E.	169.00	169.00	192.00	164.00	152.00
M. E.	169.00	171.50	182.00	166.50	154.00
Met. E.....	169.00	186.50	172.00	173.00	152.00

RESIDENTS

B. S. C.....	\$119.00	\$121.50	.....	.....	.....
C. E.	124.00	116.50	\$112.00	\$ 89.00	\$ 89.00
Ch. E.	119.00	136.50	162.00	123.00	122.00
E. E.	119.00	119.00	142.00	114.00	102.00
M. E.	119.00	121.50	132.00	116.50	104.00
Met. E.....	119.00	136.00	122.00	123.00	102.00

BOARD AND LODGING

Per Annum

Average \$8.00 per week.....\$416.00

The University has no dormitories. Students board in the vicinity of the University. The college has a list of approved boarding places, to which students are referred by the Dean's office.

If a non-resident lives at home during his work periods, as in the cases of students living and working in Dayton, Ohio, or other neighboring cities, this item will be cut in half, if he does not pay board at home.

BOOKS, DRAWING INSTRUMENTS, STATIONERY, ETC.

Average per annum \$50.00

Books, instruments, etc., for the first year amount to about \$65.

INCIDENTAL EXPENSES

Dues in engineering societies (optional).....\$1.50

Student Activity Fee 5.00

(No estimate is made here of personal items of expense such as clothing, laundry, social life, etc., since these vary considerably according to the students' habits of living.)

ENTRANCE REQUIREMENTS

To be regularly admitted to the cooperative course, an applicant must have fifteen or more units from an accredited high school. These must include three in English, one in history, one in algebra, one in plane geometry, and one half in solid geometry.

A high school is an accredited high school, if the state university in the same state admits students from the school on certificate.

On account of the rigorous character of the cooperative course, it is essential that incoming students be well grounded in their high school subjects, especially mathematics. It has been demonstrated conclusively that a student with poor preparation cannot maintain passing grades and soon drops out. In order that both the applicant and the college may obtain definite information on this mutually important point, a consultation is arranged between the applicant and a teacher in the Department of Mathematics, during which the applicant's knowledge of mathematics is tested. Should the results be unsatisfactory, the applicant is given ample time to prepare for a second conference. If this second conference does not demonstrate adequate grounding in mathematics, the applicant is informed that his chances of success in the college work are such as to make it inadvisable for him to enter the college.

CONDITIONED ENTRANCE

A student may be admitted to the cooperative course on fourteen credits, provided these include the required subjects named above. If such student successfully passes his first year's work, all conditions will be automatically removed; otherwise, he will be required to take examinations in his conditioned subjects.

No student is admitted to the cooperative course without credit in solid geometry. If an applicant did not pursue the course in solid geometry in high school, he may take an entrance examination.

ADVANCED STANDING

Students entering the cooperative course from other colleges of approved standing receive advanced credit in those subjects successfully taken which parallel ours. But if it becomes evident that a student's preparation in a prerequisite subject is inadequate, he may be required to repeat the course.

EARNINGS

A student cannot earn enough money during his course to pay all of his expenses. Some students, because of previous experience or special aptitude, earn more than others; but the average cooperative student earns by his cooperative work about enough to pay for his board and lodging. Hence a student should have enough capital to meet all other expenses.

OUTSIDE WORK

Incoming students begin their outside work during the summer preceding their admission to college.

The University secures all positions, and sets the date for reporting. The Dean prefers that new students start to work as soon after July 1 as possible. Those who wish to defer reporting until September must submit their reasons for doing so to the Dean, and obtain his permission.

Applicants are requested to send a full and complete statement of their previous experience in whatever kind of work they may have done for pay. Arrangements for cooperative positions will be based upon these statements. Previous experience, however, is not essential.

TIME OF ENTERING COURSE

Students are enrolled in the cooperative course only at the beginning of the college year in September. The courses are continuous; hence a student who has not attended the college during the first semester cannot register for work in the second semester.

SUMMER TERM

The summer term is a continuation of the work of the second semester; it begins in June and continues for ten weeks. There is no tuition fee for the summer term.

COMMUNICATIONS

Address all communications and scholarship records to the Dean of the College of Engineering and Commerce.

Please state in your first letter, if possible, the name of the course in which you are interested. Also give concisely any other information concerning yourself which might aid us in passing upon your application.

Read the Announcement carefully. If there is any matter which is not entirely clear to you, do not hesitate to write to us about it.

Applications are considered until August 1 preceding the opening of college.

Personal interviews usually accomplish more than correspondence. If you live within convenient distance, it would be better to call in person at the University to discuss the matter of your admission.

The University is always glad to advise prospective students in matters of preparation, and to offer any other helpful suggestions whenever it can.

COURSES OF INSTRUCTION IN ENGINEERING AND COMMERCE

1919-1920

COURSES IN THE FIRST TWO YEARS

The curriculum for the first two years of the cooperative course in all branches of engineering and commerce is nearly uniform. This uniformity arises from the fact that the courses given during this time—mathematics, mechanics, general inorganic chemistry, physics, and engineering drawing—are regarded as forming a common foundation for engineering in general. The specialization of the curriculum in the various departments of engineering is thus confined to the last three years of the course.

The fundamental courses given in the first two years are developed from a small body of basic principles. These are emphasized repeatedly in the various problems to which they apply. Moreover the courses are arranged to bring out the close connection between related topics. In the first year, for example, elementary mathematics, mechanics (statics), and engineering drawing are frequently brought into intimate contact. Thus a problem in mechanics may be solved as a problem in trigonometry, and at the same time by a graphic construction on a drawing plate. Again in the second year, problems that arise in physics and dynamics are used as applications of the calculus.

In brief, the courses whose inter-relationships have been developed comprise two principal groups: in the first year, elementary mathematics, statics, and engineering drawing; in the second, the calculus, dynamics, and physics. The nature of this correlation is indicated below in the description of these courses.

MATH. 1 a, b, c.

Trigonometry; algebra; analytic geometry.

The course begins with vector addition and trigonometry in order to correlate with statics to the best advantage. Vector methods are employed in the development of trigonometry and analytic geometry.

MECH. 1 a, b, c.

Statics: basic principles; conditions of equilibrium; force polygon; funicular polygon; center of gravity; static friction; beams; jointed structures (truss and crane types); virtual work; simple machines.

The general theory of statics is developed from a few basic principles. Analytic and graphic methods are consistently developed side by side, thus affording a correlation with algebra and trigonometry on the one hand, and with engineering drawing on the other.

DRAW. 1 a, b, c.

Engineering drawing; vector addition; graphs; descriptive geometry; shear and moment diagrams (funicular polygon); Maxwell diagrams; isometric projection.

The work in descriptive geometry covers the fundamental problems on the point, line, and plane, and their application to problems on the intersection and development of surfaces. The methods of descriptive geometry are applied to the solution of problems in three-dimensional statics. Connection is also made with analytic geometry.

ENGLISH 41a, b, c.

First-year reports and conferences.

One hour credit each semester.

The purpose of this course is to review the essentials of English composition and to apply them in the writing and criticism of inspection-trip reports and other written exercises. The work of the first and second semesters includes class recitations as well as conferences. Tu., W., or Th., 11:30, according to group schedules.

ENGLISH 42a, b, c.

Second-year reports and conferences.

One hour credit each semester. English 41 is a prerequisite for this course. Students will be held responsible for applying the principles studied in the first year to reports in metallurgy and physics, and to written work in other technical courses.

MATH. 5a, b, c.

Differential and integral calculus.

This course is extensively correlated with dynamics and physics.

MECH. 2a, b.

Dynamics: velocity and acceleration; force; dimensions; sliding friction; impulse and momentum; work and energy; power; simple harmonic motion; impact; moment of momentum; moment of inertia and radius of gyration.

The general theory of dynamics is deduced from a few basic principles. The fundamental concepts of the calculus are applied from the outset in the development of this course.

PHYSICS 1a, 21b.

Lectures and demonstrations on optics, hydrostatics and hydrodynamic wave motion and sound, heat and thermodynamics, electricity and magnetism. This course correlates with calculus and dynamics.

PHYSICS 2a, 22b.

Laboratory. Experimental work to supplement the lecture courses. Lectures on laboratory methods and development of apparatus form a part of this course. Experiments in dynamics are given from time to time to correlate with Mech. 2.

DRAW. 2a, b.

Engineering drawing; perspective; isometric projection; machine drawing; masonry and steel construction drawing.

The work in this course includes the freehand sketching of machine parts, and the study of drafting conventions.

It will be seen from the foregoing statement that all courses of instruction in the College of Engineering and Commerce during the first two years are nearly identical, and that any student is thus enabled to change from one course to another without loss of time or effort. The courses vary appreciably in the summer following the second year, however, and diverge more and more throughout the third, fourth, and fifth years.

The only differences between courses during the first and second years are as follows:

1. In the summer following the first year, the students in Chemical and Metallurgical Engineering take Qualitative Analysis, instead of continuing in General Chemistry. Hence, it is advisable that students who contemplate taking up Chemical Engineering as a profession make their decisions before the summer following the first year.

2. During the first and second years of the course in Civil Engineering the students attend the University full time from about January 15 until about April 15 and work full time during the summer. During this full-time school period the first-year students complete the work given in the summer following the first year to the students in the other courses; except that a course in Elementary Cement Laboratory is given instead of the summer work in General Chemistry.

The additional work done during the full-time school period of the second year of the course in Civil Engineering is described in the detailed outline of that course. On account of this variation from the procedure in the other courses, it is very desirable that students who choose Civil Engineering shall make their decisions before the full-time school period of the second year.

The following outline indicates the subjects taken by all students up to the beginning of the summer term following the second year, except as noted above for the course in Civil Engineering. It is obvious that these subjects are fundamental in character and essential to the advanced work of the later years.

FIRST YEAR

SUBJECT	COURSE	EXERCISES PER ALTERNATE TWO WEEKS		SUMMER WORK EXCEPT C. E. DEPT.
		1st Sem.	2d Sem.	
Mathematics	Math. 1a, 1b	6	6	
General Chemistry	Ch. E. 1a, 3b	5	5	
Chemistry Lab.	Ch. E. 2a, 4b	3	3	
Engineering Drawing	E. D. 1a, 1b	3	3	
Coordination	C. 1a, 1b	2	2	
Mechanics	Mech. 1a, 1b	3	3	
English	Eng. 41a, 41b	1	1	
Military Science and Tactics	Mil. 1a, 1b	3	3	
Mathematics	Math. 1c			6
General Chemistry	Ch. E. 3c, 4c			7
	(For M. E.'s, E. E.'s, and B. S. C.'s only)			
Engineering Drawing	E. D. 1c			4
Mechanics	Mech. 1c			3
English	Eng. 41c			1
Military Science and Tactics	Mil. 1c			3
Elementary Cement Lab.	C. E. 5c (for C. E.'s only)			5
Qualitative Analysis	Ch. E. 5c, 6c (for Ch. E.'s and Met. E.'s)			7

SECOND YEAR

Mathematics	Math. 5a, 5b	6	6
General Physics	Phys. 1a, 21b	6	6
Physics Lab.	Phys. 2a, 22b	2	3
Metallurgy	Met. E. 1a, 1b	4	4
Engineering Drawing	E. D. 2a, 2b	2	2
Coordination	C. 2a, 2b	2	2
Mechanics	Mech. 2a, 2b	3	2
English	Eng. 42a, 42b	1	1
Military Science and Tactics	Mil. 2a, 2b	3	3

CHEMICAL ENGINEERING

The purpose of the course of study in chemical engineering is to provide the young engineer with a broad and well-founded knowledge of chemistry and of mechanical engineering, so that he may be prepared to take up the work of assisting in the design and erection of chemical machinery, in the arrangement of plants, and the working out and improvement of manufacturing processes dependent wholly or in part upon chemistry; further, it aims to equip him so that he may be able to consider propositions, processes, and plans from the combined viewpoint of the chemist and engineer. The chemical engineer naturally begins his professional career as analyst or assistant engineer; he is much better prepared for the duties of superintendent of a chemical or metallurgical establishment than either chemist or mechanical engineer.

The chemical engineer is essentially a modern product, and the demand for men with this special training is constantly increasing. Indeed, the necessity for the efficient control of plants and processes, the economical utilization of power, the conversion of factory by-products into marketable commodities, and the adaptation and design of mechanical appliances to carry out chemical reaction on a large scale, all demand that the technical chemist should be an engineer. Graduates from this department of the University are now filling positions as superintendents and chemical engineers at blast furnaces, steel works, electrolytic establishments, coal tar distillation, and paper works, and factories making heavy chemicals, dry colors, printing inks, soaps, etc.

Students who elect this course should be in good physical condition and well prepared, since the work is both extensive and intensive, and almost all the hours of the day not spent in the classroom are occupied with work in the laboratory or in the drafting-room.

FOUR-YEAR COURSE

Students who choose the four-year course in chemical engineering are required to spend at least two summers in chemical plants or in machine shops; this work is substituted for the customary shop work of an engineering course.

COOPERATIVE COURSE

The studies during the five years of the cooperative course are not only fundamental, but they are adapted as far as possible to meet the requirements set by the practical needs of the students working in the shops and industrial chemical laboratories. They aim, simultaneously, to equip them to think independently and to do pioneer work in this field.

During the first two years of the course, a large part of the student's time is devoted to subjects essential to an engineering course in chemistry. With the exception of general inorganic chemistry, and an introduction to qualitative, the special courses in chemistry are postponed until the second summer and the years following.

CHEMICAL ENGINEERING—COOPERATIVE PLAN

Courses Required for the Degree of Ch. E.

See page 209 for subjects required previous to the beginning of the second summer.

SUBJECT	COURSE	Exercises Per Alternate Two Weeks		Summer
		1st Sem.	2d Sem.	

Second Summer Term

Quantitative Analysis	Ch. E. 7c			15
Mathematics	Math. 5c			6
English	Eng. 42c			1
Military Science and Tactics	Mil. 2c			3

Third Year—Pre-Junior

Quantitative Analysis	Ch. E. 7a	3		
Organic Chemistry	Ch. E. 8b, 9b		6	
Applied Mathematics	Ap. Math. 1a, 2b	6	6	
Electrical Engineering	E. E. 20a	6		
Electrical Engineering Lab.	E. E. 21a	2		
Mechanical Engineering	M. E. 12b		6	
Mechanical Engineering Lab.	M. E. 18b		2	
Advanced Inorganic Chem.	Ch. E. 10a	3		
English	Eng. 53a, 53b	3	3	
Coordination	C. 3a, 3b	2	2	
*Military Science and Tactics	Mil. 3a, 3b	2	2	

Third Summer Term

Organic Chemistry	Ch. E. 8c, 9c			10
Metallography	Met. E. 5c, 6c			9
English	Eng. 43c			1
*Military Science and Tactics	Mil. 3c			2

*Elective

Fourth Year—Junior

Physical Chemistry Lectures..	Ch. E. 12a, 32b....	5	5
Physical Chemistry Lab....	Ch. E. 13a, 33b....	3	3
*Modern Language.....	Lang. 1a, 1b	5	5
Advanced Organic Lectures..	Ch. E. 20a, 20b....	3	3
Advanced Organic Lab.	Ch. E. 21a.....	3	
Technical Analysis	Ch. E. 17b		3
Coordination	C. 7a, 7b.....	2	2
English	Eng. 44a, 44b	1	1
†Military Science and Tactics	Mil. 4a, 4b.....	2	2

Fourth Summer Term

Chemical Engineering Design.	Ch. E. 44c.....		18
English	Eng. 44c		1
†Military Science and Tactics	Mil. 4c		2

Fifth Year—Senior

Industrial Chemistry Lecture	Ch. E. 16a, 16b....	5	5
Industrial Chemistry Lab....	Ch. E. 36a, 36b....	3	3
Production Engineering	C. 8a, 8b.....	3	3
*Modern Language.....	Lang. 2a, 2b	5	5
Thesis	Ch. E. 23a, 23b....	3	3
English	Eng. 45a, 45b....	1	1
†Military Science and Tactics	Mil. 5a, 5b.....	2	2

CHEMICAL ENGINEERING

PROFESSOR FRY, DIRECTOR OF LABORATORY; PROFESSOR SWEENEY; ASSOCIATE PROFESSORS GOETTSCH, OESPER, FARNAU; ASSISTANT PROFESSOR †FELTON; INSTRUCTORS †WOOD, †ROLLE, SCHERRER

1a. GENERAL INORGANIC CHEMISTRY.—The non-metals. Course 2a forms an integral part of and must accompany Course 1a.

Mr. Goettsch and Assistants

2a. GENERAL INORGANIC CHEMISTRY LABORATORY.—Experiments complementary to the subject-matter of Course 1a. *First semester.* Three laboratory exercises a week. Mr. Goettsch and Assistants

3b. GENERAL INORGANIC CHEMISTRY.—The metals. Continuation of Course 1a. The course must be accompanied by Course 4b. *Second semester.* Five hours a week.

Prerequisite: Courses 1a and 2a Mr. Goettsch and Assistants

4b. GENERAL INORGANIC CHEMISTRY LABORATORY.—Experiments complementary to the subject-matter of Course 3b. *Second semester.* Three laboratory exercises a week.

Mr. Goettsch and Assistants

*German is a requirement; French is optional.

†Elective

‡Resigned

- 10a. ADVANCED INORGANIC CHEMISTRY.—*First semester.* Three exercises a week. Mr. Goettsch
Prerequisite: Courses 5a, 6, 7
- 5c. QUALITATIVE ANALYSIS. Mr. Goettsch
Prerequisite: Courses 3b and 4b
- 6c. QUALITATIVE ANALYSIS LABORATORY.—To follow Course 5c. Mr. Goettsch
- 7a, c. QUANTITATIVE ANALYSIS.—An introductory laboratory course in gravimetric and volumetric analysis.
Prerequisite: Courses 5c and 6c (second semester) Mr. Oesper
- 17b. TECHNICAL ANALYSIS. Mr. Oesper
Prerequisite: Course 7c
- 8b, c. ELEMENTARY ORGANIC CHEMISTRY.—Arranged to meet the needs of those who intend to specialize in chemistry, in medicine, in biology, or in engineering. *Second semester and summer term* for cooperative engineers. Mr. Farnau
Prerequisite: Courses 3b and 4b
- 9b, c. ORGANIC REACTIONS AND PREPARATIONS.—Laboratory practice, consisting of two exercises a week to accompany the lectures of Course 8b. *Second semester and summer term* for cooperative engineers. Mr. Farnau
Prerequisite: Courses 3b and 4b
- 20a, b. ADVANCED ORGANIC CHEMISTRY.—Three lectures a week throughout the year. Mr. Farnau
Prerequisite: Courses 5c, 6c, 7c, 8b, 9b, and a reading knowledge of German and French
- 21a. ADVANCED ORGANIC CHEMISTRY LABORATORY.—Two or three exercises a week throughout the year. May also be taken during one semester, either *first or second*. Mr. Farnau
- 12a. PHYSICAL CHEMISTRY.—*First semester.* Five periods a week. Mr. Farnau
Prerequisite: Chemistry 5c, 6c, 7c; Physics 26a and 27b; Mathematics 5
- 13a. PHYSICAL CHEMISTRY LABORATORY.—This course must accompany Course 12a. *First semester.* Three exercises a week. Mr. Farnau
- 32b. ELECTRO-CHEMISTRY.—*Second semester.* Five exercises a week. Prerequisite: Course 12a Mr. Farnau
- 33b. ELECTRO-CHEMISTRY LABORATORY.—This course must accompany Course 32b. *Second semester.* Three exercises a week. Mr. Farnau

- 34a. COLLOID CHEMISTRY.—*First semester.* Three lectures a week.
Prerequisite: Courses 12a and 13a Mr. Oesper
- 37b. APPLIED ELECTRO-CHEMISTRY.—*Second semester.* Three lectures a week.
Prerequisite: Courses 12a and 13a Mr. Farnau
- 38b. APPLIED ELECTRO-CHEMISTRY LABORATORY.—To accompany Course 37b. *Second semester.* Three periods a week.
Mr. Farnau
- 41a. PHASE RULE.—Two exercises a week. Hours to be arranged.
Prerequisite: Course 12a Mr. Farnau
- 14b. METALLURGY.—*Second semester.* Five periods a week.
Prerequisite: Chemistry 5c and Physics 1a Mr. Felton
- 15b. ASSAYING.—*Second semester.* One afternoon a week.
Prerequisite: Course 7 Mr. Felton
- 16a,b. INDUSTRIAL CHEMISTRY.—*First semester.* Five periods a week.
Prerequisite: Courses 5c and 6c Mr. Sweeney
- 18b. INDUSTRIAL CHEMISTRY.—*Second semester.* Five periods a week.
Prerequisite: Courses 8b and 16a Mr. Sweeney
- 36a,b. INDUSTRIAL CHEMISTRY LABORATORY. Mr. Sweeney
- 42a. ENGINEERING MATERIALS.—A course of lectures covering a selected list of materials used by the engineer, but not included in the courses in metallurgy and mechanical and electrical engineering. *First semester.* One lecture; one credit hour.
Mr. Sweeney
- 42b. ENGINEERING MATERIALS.—Continuation of Course 42a. *Second semester.* One lecture; one credit hour. Mr. Sweeney
- 23a,b. THESIS LABORATORY.—Three to five laboratory periods a week devoted to the solution of some problem in technical chemistry or metallurgy. For Senior students who are required to prepare a thesis for graduation.
Mr. Fry, Mr. Sweeney, Mr. Goettsch, Mr. Farnau, Mr. Oesper, Mr. Felton

CIVIL ENGINEERING

The purpose of this course is to give a broad education in those subjects which form the basis of all branches of technical education, and a special training in the subjects comprised under the term "Civil Engineering." It aims to prepare the young engineer to assist in the design and construction of bridges, steel and reinforced concrete buildings, and other masonry structures, such as walls, foundations, and dams; to aid in the location and construction of steam and electric railways, highways, pavements, sewerage, and water supply systems; and to undertake, in an intelligent manner, the supervision of work in the allied fields of mining, architectural engineering, and general contracting.

COOPERATIVE PLAN

The Civil Engineering Department cooperates with consulting engineers, railroads, structural steel shops, reinforced concrete construction companies, general contractors, the Engineering Department of the City of Cincinnati, and the United States Government.

In this department the employment in practical work is continuous during the summer, and, with certain exceptions noted below, alternates in bi-weekly periods during the first and second semesters. College work is continuous for first and second-year students between the first of January and the first of April; and for fifth-year students between the first of February and the first of June. (See winter schedules in the courses required for the degree of C. E.)

Students employed by the railroads start in section gangs, as laborers on track work, doing main line, yard, or extra gang work. In the bridge and building department, experience is gained in the repair of bridges, the building of culverts, and other construction and maintenance work done by this department. The signal department affords opportunity for the student to become familiar with the installation, operation, and maintenance of the various signal systems. Field and office experience is obtained in the processes of railroad valuation. In the latter part of the course, the student is assigned to minor supervisory work in connection with heavy construction. As opportunity permits, and the ability of the student warrants, he acts as assistant foreman and timekeeper in the various departments.

Students desiring municipal work start as laborers with contractors for city departments, on street, sewerage, bridge, or other municipal work. After sufficient experience, they become rodmen, inspectors, timekeepers, foremen, and assistant superintendents.

In structural work, the student is placed in a structural steel shop to familiarize himself with structural steel fabrication. This is followed by experience in steel erection, and by work in reinforced concrete construction and general contracting activities, the student being given opportunities commensurate with his proven ability.

Experience in the construction projects of the United States Government on the Ohio and neighboring rivers, may be obtained by those having the necessary preliminary experience. This work consists of investigations, surveys, and inspection and office work in connection with the construction of dams, locks, and channel improvement.

The outside work in civil engineering aims to give the students experience in doing the work themselves, and the opportunity to observe the work of others at close range while acting as assistants; it also trains them, in conjunction with their college course, to supervise work that is being done by others. While there is a definite plan outlined and agreed to by each employer, promotion is dependent upon the ability and application of the student.

CIVIL ENGINEERING—COOPERATIVE PLAN

Subjects Required for the Degree of C. E.

See page 209 for subjects required previous to the beginning of the second year winter term.

SUBJECT	COURSE	Exercises	
		Per Alternate 1st Sem.	Two Weeks 2d Sem.
<i>Second Winter Term Six Weeks</i>	<i>Sophomore</i>		
Mathematics	Math. 5c	6	
Plane Surveying, Theory....	C. E. 25c.....	6	
Plane Surveying, Field.....	C. E. 26c.....	4	
English	Eng. 42c	1	
Hydraulics	C. E. 13c.....	7	
Military Science and Tactics..	Mil. 2c.....	3	

Third Year—Pre-Junior

English	Eng. 53a, 53b.....	3	3
Electrical Machinery.....	E. E. 20a.....	6	
Electrical Lab.....	E. E. 21a.....	2	
Applied Mathematics.....	Ap. Math. 1a, 1b.....	6	6
Cement Testing Lab.....	C. E. 6b.....		3
Railroad Surveying, Theory..	C. E. 10a, 10b.....	3	3
Railroad Surveying, Field....	C. E. 11a.....	3	
Steam Engineering.....	M. E. 12b.....		6
Mechanical Lab.....	M. E. 18b.....		2
English	Eng. 43a, 43b.....	1	1
*Military Science and Tactics.	Mil. 3a, 3b	2	2

*Elective

Fourth Year—Junior

Advanced Mathematics.....	Math. 35a, 35b.....	3	3
Mineralogy	Geol. 25a, 25b.....	2	2
Roofs and Bridges.....	C. E. 9a, 9b.....	3	3
Graphic Statics	C. E. 8a, 8b.....	3	2
City Planning	C. E. 31a, 31b.....	3	1
Engineering Design, Theory.....	C. E. 16a, 16b.....	3	3
Engineering Design, Drawing.....	C. E. 30a, 30b.....	2	2
Humanities		3	3
English	Eng. 44a, 44b.....	1	1
Engineering Management.....	C. 10b		2
*Military Science and Tactics.....	Mil. 4a, 4b.....	2	2

Fifth Year—Senior

Engineering Geology	Geol. 2a, 2b.....	4	4
Structural Design, Theory.....	C. E. 14a, 14b	3	2
Structural Design, Drawing.....	C. E. 15a, 15b.....	2	2
Sewerage, Theory	C. E. 18b.....		3
Sewerage, Design	C. E. 19b.....		1
Water Supply, Theory	C. E. 21a.....	3	
Water Supply, Design	C. E. 22a.....	1	
Indeterminate Structures	C. E. 17a, 17b.....	2	2
Highway Engineering, Theory.....	C. E. 27a, 27b.....	3	1
Highway Engineering, Design.....	C. E. 28a, 28b.....	1	1
Construction Engineering.....	C. 11a, 11b.....	3	3
Humanities		3	3
English	Eng. 45a, 45b.....	1	1
*Military Science and Tactics.....	Mil. 5a, 5b.....	2	2

CIVIL ENGINEERING

PROFESSORS SCHNEIDER, BRAUNE; ASSISTANT PROFESSORS RUTH,
 †CARROLL, JANDA; INSTRUCTORS LANGENHEIM, MULLIN; GRADUATE
 ASSISTANT FELD

- C. E. 3c. ELEMENTARY SURVEYING.—Theory and use of common surveying instruments. This course is arranged for mechanical, electrical, and chemical engineering students. Mr. Ruth
- C. E. 5c. CEMENT TESTING LABORATORY.—Elementary physical testing of cement concrete, and concrete materials according to the Bureau of Standards. Mr. Ruth, Mr. Feld
- C. E. 6b. CEMENT TESTING LABORATORY.—Analysis of raw materials. Manufacture of cement. Laboratory tests of cement, mortar, concrete, and reinforced concrete. Mr. Ruth, Mr. Feld

*Elective
 †Resigned

- C. E. 7c. CEMENT TESTING LABORATORY.—Elementary physical testing of cement, concrete and concrete materials according to the Bureau of Standards, for mechanical and electrical students.
- C. E. 8a, 8b. GRAPHIC STATICS.—Graphic methods applied to the determination of stresses, bending moments, shears, etc., in structures. Mr. Ruth
- C. E. 9a, 9b. ROOFS AND BRIDGES.—Theory of stresses in framed structures under static and moving loads by both graphic and analytic methods. Mr. ———
- C. E. 10a, 10b. RAILROAD SURVEYING THEORY.—Simple, compound, reversed, and transition curves. Turnouts and switches. Theory of earthwork computation. Mr. Ruth
- C. E. 11a. FIELD RAILROAD SURVEYING.—Practice in staking out curves, cross sectioning, setting of slope stakes, etc. Mr. ———
- C. E. 13c. HYDRAULICS.—Theory of the flow of water through orifices, tubes, pipes, channels, etc. Theory of sewer and water supply hydraulics, stream gauging, and hydrographic surveying. Mr. Janda
- C. E. 14a, 14b. STRUCTURAL DESIGN THEORY.—Lectures and discussion of contracts, office work, shops, and shop practice. Design of roof truss, plate girder, pin and riveted spans. Specifications. Mr. Braune
- C. E. 15a, 15b. STRUCTURAL DESIGN DRAWING.—Complete detailed contract drawings of roof truss, plate girder, pin and riveted spans. Inspection trips. Mr. Braune
- C. E. 16a, 16b. ENGINEERING DESIGN.—Theory of design in reinforced concrete, retaining walls, dams, etc. Mr. Ruth
- C. E. 17a, 17b. HIGHER STRUCTURES.—Analysis of indeterminate structures. Mr. Brand
- C. E. 18b. SEWERAGE.—Theory of design, maintenance, and construction. Collection and disposal of sewage. Purification plants. Mr. Mullin
- C. E. 19b. SEWERAGE DESIGN.—Design, estimate of cost, and execution of plans for a small district. Mr. Mullin
- C. E. 21a. WATER SUPPLY THEORY.—Consumption by municipalities. Yields from various sources. Examination of water supplies. Impounding reservoirs. Distribution systems. Purification. Mr. Mullin

- C. E. 22a. WATER SUPPLY DESIGN.—Design, estimate of cost of distribution system, standpipe, etc., and execution of plans.
Mr. Mullin
- C. E. 24b. SPECIAL DESIGN.—A subject is selected by Senior students and investigations and designs are made.
Mr. Braune, Mr. Ruth
- C. E. 25c. PLANE AND TOPOGRAPHIC SURVEYING.—Theory relating to the use and adjustment of instruments; theory of land, topographic, and city surveying. Mr. ———
- C. E. 26c. FIELD SURVEYING.—Practice in the use and adjustments of the tape, level, transit, plane table, etc. Mr. ———
- C. E. 27a, 27b. HIGHWAY ENGINEERING THEORY.—Construction, maintenance, and cost of roads and pavements. Consideration of relative merits of various types. Mr. Mullin
- C. E. 28a, 28b. HIGHWAY ENGINEERING DESIGN.—Design, estimate of cost, and execution of plans of typical pavements.
Mr. Mullin
- C. E. 30a, 30b. ENGINEERING DESIGN, DRAWING.—Practical problems in reinforced concrete, retaining walls, dams, foundations, etc.
Mr. Ruth
- C. E. 31a. CITY PLANNING.—Land subdivision; city street plans; parks; housing; terminals; zoning. Mr. Janda

ELECTRICAL ENGINEERING

The Department of Electrical Engineering offers courses on two distinct plans. The first is called the regular course and is completed in four years, the student working in the University each week during the college year and in the shops during the summer. The second is called the cooperative course and is completed in five years, the student working in the College of Engineering and Commerce one period of two weeks and in some phase of industry for the alternate period of two weeks. Every four weeks, the student will have spent two weeks in the University and two weeks in some business enterprise. A description of the cooperative plan is given elsewhere in this Announcement.

During the first two years, the work in the University is chiefly in elementary mechanics, mathematics, physics, chemistry, and mechanical drawing, and forms a basis for more specialized work in later years. At the beginning of the third and Junior years, specialized work is taken up. Inasmuch as the professional electrical engineer needs a comprehensive knowledge of mechanical engineering, many of the technical subjects of the mechanical department are included in the electrical course. Thus steam engineering, gas engineering, hydraulic machinery, and machine design, with laboratory work and drawing, together with applied mathematics, are studied during the third, fourth, and fifth years.

COOPERATIVE PLAN

The cooperative students of electrical engineering follow many diverse lines of practical experience. It is hardly possible to discuss these activities in detail. But there is a general method underlying all forms of practical work, so that approximately the same degree of progressive development is obtained.

As a rule, Freshmen spend a year in some foundry or machine shop, for the purpose of becoming familiar with general shop practice and the conditions of labor. Those who take up manufacturing work, such as is offered by the Bullock Electric Company or the Triumph Electric Company, spend practically the first, second, and third years in the machine, controller, winding, and assembling departments. In this way, they become thoroughly familiar with the varied processes involved in the manufacture of electrical machinery, and with the details of shop organization. The fourth year is usually spent in testing direct current machinery, and the fifth year in the testing of alternating current machinery.

At present, a number of students are employed in telephone work. Their practical experience depends upon the operating conditions, and involves both inside and outside inspection, repair, testing, and construction.

Students of electrical engineering are also engaged in cooperative work with the local gas and electric company. The practical experience with this company is of a varied character, and depends largely upon the ability of the students.

ELECTRICAL ENGINEERING—COOPERATIVE PLAN

Subjects Required for the Degree of E. E.

See page 209 for subjects required previous to the beginning of the second summer.

SUBJECT	COURSE	Exercises		Summer
		Per Alternate 1st Sem.	Two Weeks 2d Sem.	
<i>Second Summer Term</i>				
Mathematics	Math. 5c			6
Electrical Lab.	E. E. 5c			5
Mechanism	M. E. 6c			6
Drawing and Sketching	M. E. 7c			6
English	Eng. 42c			1
Military Science and Tactics	Mil. 2c			3

Third Year—Pre-Junior

Electrical Engineering	E. E. 1a, 9b	6	6	
Electrical Lab.	E. E. 5a, 5b	5	3	
Mathematics	Math. 31a, 31b	3	3	
English	Eng. 53a, 53b	3	3	
Applied Mathematics	App. Math. 1a, 2b	6	6	
English	Eng. 43a, 43b	1	1	
Physics Lab.	Phys. 13 b		3	
Materials of Eng.	Ch. E. 42a, 42b	1	1	
*Military Science and Tactics	Mil. 3a, 3b	2	2	

Third Summer Term

Electrical Engineering	E. E. 3c			12
Electrical Lab.	E. E. 13c			4
Mechanical Lab.	M. E. 18c			3
Materials of Eng.	C. E. 19c			1
English	Eng. 43c			1
*Military Science and Tactics	Mil. 3c			2

Fourth Year—Junior

Steam Engineering	M. E. 11a, 11b	6	6	
Mechanical Lab. (Steam)	M. E. 18a, 18b	2	2	
Machine Design	M. E. 13a	5		
Machine Design	M. E. 14a	4		
Hydraulic Machinery	M. E. 27b		5	
Coordination	C. 8a, 8b	3	3	
Electrical Design	E. E. 2b		3	
English	Eng. 44a, 44b	1	1	
*Military Science and Tactics	Mil. 4a, 4b	2	2	

*Elective

Fourth Summer Term

Electrical Engineering	E. E. 4c.....	6
Thesis	E. E. 8c.....	4
Electrical Design	E. E. 2c.....	5
Surveying (Elementary)	C. E. 3c.....	3
Electrical Lab.	E. E. 7c.....	3
English	Eng. 44c	1
*Military Science and Tactics ..	Mil. 4c.....	2

Fifth Year—Senior

History	Hist. 70a, 70b..	3	3
Accounting and Management....	C. 9a, 9b.....	3	3
Gas Engineering	M. E. 23a, 23b..	3	3
Power Station	E. E. 11a, 11b..	3	3
Telegraphy and Telephony.....	E. E. 14a, 14b..	3	3
Thesis	E. E. 8a, 8b....	2	5
Electrical Lab.	E. E. 7a.....	3	
English	Eng. 45a, 45b..	1	1
*Military Science and Tactics ..	Mil. 5a, 5b....	2	2

ELECTRICAL ENGINEERING

PROFESSOR WILSON; ASSISTANT PROFESSOR HOFFMANN; INSTRUCTORS OSTERBROCK, RODI, NORTON, COLEMAN, CREIGHTON

1. DIRECT CURRENT MACHINERY.—Fundamental principles of direct current machinery; characteristics, construction, and operation of dynamos, motors, and instruments.
Mr. Hoffmann, Mr. Osterbrock, Mr. Rodi
2. ELECTRICAL DESIGN.—Principles and methods employed in the design of direct current machinery.
Mr. Wilson, Mr. Osterbrock
3. ALTERNATING CURRENT MACHINERY.—Analytical and graphical treatment of alternating current circuits. An advanced course based on Course 9.
Mr. Wilson, Mr. Hoffmann
4. ELECTRIC POWER TRANSMISSION.—Electric conductors; distributing systems; interior wiring; long-distance transmission; economy in the design of circuits; line construction.
Mr. Wilson
5. ELECTRICAL ENGINEERING LABORATORY.—Study of magnetic properties of iron and steel; operation of direct current dynamos and motors, with tests for characteristics, efficiency, and losses.
Mr. Hoffmann, Mr. Rodi, Mr. Norton

7. **ADVANCED ELECTRICAL ENGINEERING LABORATORY.**—Experimental study of alternators, transformers; single and polyphase induction motors; rotary converters, etc.
Mr. Hoffmann, Mr. Rodi
8. **THESIS.**—Special assignments.
Mr. Wilson
9. **ALTERNATING CURRENTS.**—Resistance, inductance, and capacity in alternating current circuits, graphical and analytical treatment; alternating current generators and motors; polyphase circuits.
Mr. Wilson, Mr. Hoffmann, Mr. Osterbrock, Mr. Coleman
10. **ILLUMINATION.**—Principles of photometry; light sources; shades and reflectors; domestic illumination; lighting of large interiors; street lighting; decorative illumination. —————
11. **ELECTRIC POWER STATIONS.**—The central power station, location, and general arrangement; selection of generating units; switch gear; station wiring; storage battery. The substation.
Mr. Hoffmann
12. **ELEMENTARY PROBLEMS.**—For students during third summer.
Mr. Hoffmann, Mr. Osterbrock, Mr. Rodi, Mr. Coleman
13. **ELEMENTARY LABORATORY.**—For students during third summer. Miscellaneous laboratory in connection with problems.
Mr. Hoffmann, Mr. Osterbrock, Mr. Rodi
14. **TELEGRAPHY AND TELEPHONY.**—Fundamental principles of wire and wireless telephony and telegraphy.
Mr. Wilson, Mr. Hoffmann
15. **ELECTRICAL DESIGN (ADVANCED).**—A continuation of Course 2, attention being given especially to the construction of alternating current machinery and installations.
Mr. Wilson, Mr. Hoffmann
20. **ELECTRICAL MACHINERY AND APPARATUS.**—A general course for civil and chemical engineers.
Mr. Wilson
21. **LABORATORY COURSE.**—For civil and chemical engineers.

MECHANICAL ENGINEERING

This course offers training in the fundamental principles underlying the science of engineering, and specializes upon the design, construction and operation of machinery. The growing tendency towards the development and introduction of mechanical processes and devices has extended the activities of the mechanical engineer into practically all branches of industry, and in order to meet the broad requirements of the profession it is essential that he be trained in the sciences of mathematics, physics, mechanics, chemistry, metallurgy, and electricity and in their applications to engineering.

The University of Cincinnati is situated in the heart of the great industrial district of the Middle West, in which there are numerous manufacturing establishments of international reputation. These large and diversified manufacturing interests offer exceptional opportunities to students and graduates in mechanical engineering.

COOPERATIVE COURSE

Cooperative students in mechanical engineering spend half of their time working in foundries, machine shops, power plants, and drafting rooms; and in the time setting, heat treating, testing, repair, and planning departments of about forty manufacturing concerns engaged principally in the production of steam, gas, air, refrigerating, and automotive machinery and machine tools.

The first two years of the University work are devoted to fundamental courses in mathematics, physics, chemistry, drawing, and the mechanisms of machines. Inasmuch as the mechanical engineer comes into contact with all kinds of machinery and mechanical processes involving chemistry, electricity, metallurgy, and surveying, courses in these subjects are included in the curriculum. The third year is devoted to an elementary course in automotive engineering which correlates with the laboratory work on automobile and airplane motors; steam engineering in both classroom and laboratory; mechanics and strength of materials in both classroom and laboratory; and a metallurgical course in the heat treatment of materials. Electrical engineering subjects are introduced in the third summer and continued throughout the fourth year. Courses on steam turbines, graphics, and the construction of special slide rules and charts are also given in the third summer. The fourth year is devoted to machine design, electrical engineering, production engineering, hydraulic machinery, history, and economics. The summer following the fourth year is devoted to the study of valve gears, surveying, and special laboratory problems involving research. The fifth year is devoted to the more specialized courses in gas engineering, accounting and management, machine tools, thermodynamics, economics, and research.

The laboratory work in mechanical engineering covers steam engineering, gas engineering, machine tools, and the physical testing of materials. The laboratories are equipped with testing machines and special scientific apparatus for research purposes. The equipment also includes standard types of automobile and airplane motors; high speed and Corliss steam engines; steam turbines, stationary gas, oil, and gasoline engines; air compressors, machine tools, and refrigerating machinery. The University power plant, of 1200 horsepower, is arranged particularly for the testing of boilers.

MECHANICAL ENGINEERING—COOPERATIVE PLAN

Courses Required for the Degree of M. E.

See page 209 for subjects required previous to the beginning of the second summer.

SUBJECT	COURSE	Exercises		
		Per Alternate Two Weeks		Summer
		1st Sem.	2d Sem.	
<i>Second Summer Term</i>				
Mathematics	Math. 5c			6
Mechanism.....	M. E. 6c.....			6
Drawing and Sketching.....	M. E. 7c.....			6
Mechanical Lab.	M. E. 18c.....			3
English	Eng. 42c			1
Military Science and Tactics	Mil. 2c			3

Third Year—Pre-Junior

Automotive Engineering	M. E. 5		3	
Mathematics	Math. 35a	3		
Steam Engineering	M. E. 11a, 11b ..	6	6	
Applied Mathematics	Ap. Math. 1a, 2b	6	6	
Mechanical Lab.	M. E. 18a, 18b ..	2	2	
Power Plant Inspection Trips	M. E. 16a, 16b ..	1	1	
English	Eng. 53a, 53b ..	3	3	
Physics Lab.	Phys. 13b		3	
Heat Treatment	Met. 20a	2		
Materials of Engineering	Ch. E. 42a, 42b ..	1	1	
English	Eng. 43a, 43b ..	1	1	
*Military Science and Tactics	Mil. 3a, 3b	2	2	

*Elective

Third Summer Term

Electrical Lab.	E. E. 5c.....		7
Graphics	M. E. 17c.....		9
Steam Turbines.....	M. E. 24c.....		4
English	Eng. 43c		1
*Military Science and Tactics....	Mil. 3c		2

Fourth Year—Junior

Machine Design	M. E. 13a.....	6	
Machine Design	M. E. 14a, 19b..	4	4
Electrical Engineering.....	E. E. 1a, 9b....	6	6
Electrical Lab.	E. E. 5a, 5b....	2	2
Coordination	C. 8a, 8b.....	3	3
Hydraulic Machinery	M. E. 27b.....		6
English	Eng. 44a, 44b..	1	1
*Military Science and Tactics....	Mil. 4a, 4b....	2	2

Fourth Summer Term

Valve Gears	M. E. 22c.....		11
Experimental Engineering.....	M. E. 25c.....		5
English	Eng. 44c		1
Elementary Surveying	C. E. 3c.....		3
*Military Science and Tactics....	Mil. 4c		2

Fifth Year—Senior

Gas Engineering	M. E. 23a, 23b..	3	3
Machine Shop Tools.....	M. E. 15a.....	6	
Experimental Engineering.....	M. E. 25a.....	2	
Thermodynamics	M. E. 21a, 21b..	2	6
Engineering Design.....	M. E. 28a, 28b..	4	2
Production Engineering.....	C. 9a, 9b.....	3	3
Thesis	M. E. 39b.....		4
English	Eng. 45a, 45b..	1	1
History	Hist. 70a, 70b..	3	3
*Military Science and Tactics....	Mil. 5a, 5b....	2	2

*Elective

MECHANICAL ENGINEERING

PROFESSOR JENKINS; ASSISTANT PROFESSORS JOERGER, SHINE; INSTRUCTORS ZUGELTER, MESSINGER, WOLSDORF; GRADUATE FELLOW SOLLER

5. AUTOMOTIVE ENGINEERING.—An elementary course covering the fundamental principles of design, construction, and operation of automotive machinery. Mr. Jenkins
6. MECHANISM.—Kinematics of toothed wheels, cams, screws, links, belts, chains, cone pulleys, speed boxes, back-gears, and complete trains of mechanism; feeds and speeds on machine tools. Mr. Shine, Mr. Wolsdorf
7. DRAWING AND SKETCHING.—Graphic representation of various methods of transmitting and modifying motions by means of mechanical devices. Cams, links, and toothed wheels. Mr. Shine, Mr. Wolsdorf
9. MACHINE DRAWING.—Detail drawings from measurements of machines. Assembled drawings of machines. Mr. Shine
11. STEAM ENGINEERING.—Elements and economy of simple and complete steam plants. Fuels, combustion, boilers, furnaces, stokers, smoke prevention, superheaters, coal and ash handling, chimneys, mechanical draft, steam engines, turbines, condensers. Mr. Joerger
12. STEAM ENGINEERING.—A special course for chemical and civil engineering students. Mr. Wolsdorf
13. MACHINE DESIGN.—The designs of fastenings, links, shafts, bearings, couplings, clutches, belting, ropes, chains, toothed gearing. Strength and stiffness of machine parts. Selection of materials. Mr. Jenkins
14. MACHINE DESIGN.—Design of punching and shearing machine. Assembled and detailed drawings and complete calculations for a given machine are required of each student. Mr. Jenkins, Mr. Soller
15. MACHINE SHOP TOOLS.—Action of metal-cutting tools. Effect of shape of tool on durability. Geometric and other series for feeds and speeds. Speed-torque analysis of machine tools. Mr. Jenkins

16. **POWER PLANT INSPECTION TRIPS.**—Visits to, and the study of, industrial power installations. Reports, sketches, and class-room discussion of the engineering features encountered.
Mr. Zugelter
17. **GRAPHICS.**—Efficiencies and forces of machines. Graphic exposition of equations and data. Derivation of empirical formulas from data. Construction of special slide rules, alinement, and other charts. Mr. Jenkins, Mr. Joerger
18. **ENGINEERING LABORATORY.**—Typical tests of the materials of construction. Calibration of instruments. Tests of steam engines, turbines, pumps and accessories, gas engines, air compressors, machine tools.
Mr. Joerger, Mr. Zugelter, Mr. Shine
19. **MACHINE DESIGN.**—A definite problem involving the design of a complete machine, to be presented in the form of working drawings, with written description and calculation of parts.
Mr. Jenkins, Mr. Soller
21. **THERMODYNAMICS.**—Elastic media as heat carriers. Temperature-entropy diagrams of various cycles. Application of thermodynamics to steam and gas engines, air compressors, and refrigerating machines.
Mr. Joerger
22. **VALVE GEARS.**—Analytical and graphical analysis of valve mechanisms. Methods of laying out the various forms of valve gears, link motions, and reversing gears. Mr. Joerger
23. **GAS ENGINEERING.**—Thermodynamics of gas engines. Design and performance of gas-producer plants. Study of various types of gas engines in the United States and Europe.
Mr. Joerger
24. **STEAM TURBINES.**—Historical development. Modern types. Critical study of the turbine as a heat motor and as a machine. Comparison with the most approved types of reciprocating engines.
Mr. Joerger
25. **EXPERIMENTAL ENGINEERING.**—Characteristics and economy of heat motors and their variation with conditions of operation. Experimental study of the forces acting on metal-cutting tools. Mr. Jenkins, Mr. Joerger, Mr. Zugelter
27. **HYDRAULIC MACHINERY.**—Fundamental principles of hydraulics. Hydraulic transmission of power, hydrostatic presses, elevators, motors, turbines, accumulators, intensifiers, jacks, and pumps.
Mr. Jenkins

28. **ENGINEERING DESIGN.**—A definite problem in the design or investigation of a machine, prime mover, auxiliary, or plant. Free reference to machines and plants in the city bearing on the problem. Mr. Jenkins, Mr. Joerger
30. **HEATING AND VENTILATION.**—Methods of heating buildings by hot air, steam, and water. Motors, blowers, and mechanisms used in ventilating. Mr. Joerger
39. **THESIS.**—Modified research or original design. Hours to be arranged. Mr. Jenkins, Mr. Joerger, Mr. Shine, Mr. Zugelter

METALLURGICAL ENGINEERING

The practice of metallurgy is in large part the application of general engineering principles, and the course is built upon a foundation of mathematics and sciences which are generally recognized as fundamental to a sound engineering training; in addition, considerable time is devoted to the study of applied subjects in mechanical and electrical engineering. But metallurgy as a specialized branch of engineering practice is primarily dependent upon chemistry, and this subject occupies a prominent place in the earlier years of the course.

Direct instruction in metallurgy is given by means of classroom and laboratory work in the general principles of the art, and their application to the manufacture and treatment of iron and steel, and to the recovery of the more common metals other than iron. The greatest emphasis is placed upon the application of the various metals and alloys to engineering construction, this training being gained by the study of the constitution of alloys, by chemical and physical tests of these materials, and by metallographic examination with the microscope.

The laboratories are equipped with the necessary furnaces, pyrometers, microscopes, and other accessory apparatus for the instruction work involved in the general subjects, and for the more advanced study of a specialized and investigative nature, which occupies a prominent place in the later years of the course.

Students in metallurgical engineering are placed in direct contact with the work and problems of this profession through cooperation with the industries of Cincinnati and vicinity. The first year is usually spent in the foundry, and the second in the machine shop. After this preliminary stage, more direct specialization is obtained by placing the men in foundries, coke ovens, blast furnaces, steel works and rolling mills, forge works, heat treatment departments, and industries of like metallurgical interest.

METALLURGICAL ENGINEERING—COOPERATIVE PLAN

Courses Required for the Degree of Met. E.

See page 209 for subjects required previous to the beginning of the second summer.

SUBJECT	COURSE	Exercises		
		Per Alternate Two Weeks		
		1st Sem.	2d Sem.	Summer
<i>Second Summer Term</i>				
Quantitative Analysis.....	Ch. E. 7c.....			15
Mathematics	Math. 5c			6
English	Eng. 42c			1
Military Science and Tactics ..	Mil. 2c			3

Third Year—Pre-Junior

Applied Mathematics	Ap. Math. 1a, 2b	6	6
Electrical Engineering	E. E. 20a	6	
Electrical Engineering Lab.	E. E. 21a	2	
Mechanical Engineering	M. E. 12b		6
Mechanical Engineering Lab.	M. E. 18b		2
Advanced Inorganic Chemistry	Ch. E. 10a	3	
English	Eng. 53a, 53b	3	3
Coordination	C. 3a, 3b	2	2
Mineralogy	Geol. 25a, 25b	2	2
General Metallurgy	Met. E. 3a, 3b	1	4
*Military Science and Tactics	Mil. 3a, 3b	2	2

Third Summer Term

English	Eng. 43c		1
Metallography Lectures	Met. E. 5c		5
Metallography Lab.	Met. E. 6c		5
*Military Science and Tactics	Mil. 3c		2

Fourth Year—Junior

Physical Chemistry Lectures	Ch. E. 12a, 32b	5	5
Physical Chemistry Lab.	Ch. E. 13a, 33b	2	2
Technical Analysis	Ch. E. 17b		3
Metallurgy of Iron Lectures	Met. E. 7a	5	
Metallurgy of Iron Lab.	Met. E. 8a	2	
Non-Ferrous Metallurgy	Met. E. 9b		5
†Modern Language	Lang. 1a, 1b	5	5
English	Eng. 44a, 44b	1	1
Coordination	C. 7a, 7b	2	2
*Military Science and Tactics	Mil. 4a, 4b	2	2

Fourth Summer Term

Metallurgical Design	Met. E. 11c		18
English	Eng. 44c		1

Fifth Year—Senior

English	Eng. 45a, 45b	1	1
Electro-Metallurgy	Met. 12a	3	
Electro-Metallurgy Lab.	Met. 13a	2	
Thesis	Met. E. 14a, 14b	3	6
Conference	Met. E. 15a, 15b	1	1
Production Engineering	C. 8a, 8b	3	3
†Modern Language	Lang. 2a, 2b	5	5
*Military Science and Tactics	Mil. 5c, 5b	2	2

*Elective

†German is a requirement; French is optional.

METALLURGY AND METALLURGICAL ENGINEERING

PROFESSOR FRY, DIRECTOR OF THE LABORATORY; PROFESSOR SWEENEY;
ASSOCIATE PROFESSORS GOETTSCH, OESPER, FARNAU; ASSISTANT
PROFESSOR *FELTON; INSTRUCTORS *WOOD, *ROLLE

- 1a, 1b. ENGINEERING METALLURGY; ENGINEERING METALLURGY LABORATORY.—A course designed to give an introduction to the metallurgical principles underlying the commercial production of metals and alloys; and an explanation of their various mechanical and physical properties. *First and second semesters, second year.* Two lectures and one laboratory period a week. For civil, electrical, mechanical, chemical, and metallurgical engineers. Mr. Felton, Mr. Wood
Prerequisite: C. E. 20; M. E. 4; Ch. E. 1a, 2a, 3b, 4b
- 5c, 6c. METALLOGRAPHY.—Thermal investigations to verify the iron-carbon equilibrium diagram, and a microscopic study of the constitution of steel. *Third year, summer term.* Five lectures and five laboratory periods. Mr. Felton, Mr. Wood
Prerequisite: Ch. E. 12a, 13a; Met. E. 3a, 3b
- 7a, 8a. METALLURGY OF IRON AND STEEL; METALLURGY OF IRON AND STEEL LABORATORY.—*First semester, fourth year.* Five lectures and two laboratory periods a week. Mr. Felton
Prerequisite: Met. E. 3a, 3b, 5c, 6c
- 9b. NON-FERROUS METALLURGY.—*Second semester, fourth year.*
Five lectures a week. Mr. Wood
Prerequisite: Met. E. 3a, 3b
- 11c. METALLURGICAL DESIGN.—A definite problem involving the design of some item of metallurgical equipment to be completed in the form of working drawings. *Summer term, fourth year.* Mr. Sweeney, Mr. Felton, Mr. Wood
Prerequisite: M. E. 13 and 14
- 12a, 13a. ELECTRO-METALLURGY; ELECTRO-METALLURGY LABORATORY.
Construction and operation of various types of electric furnaces used in metallurgical industries. *First semester, fifth year.* Three lectures and two laboratory periods a week.
Prerequisite: Met. E. 3a, 3b Mr. Felton
- 14a, b. THESIS.—An investigation of a special metallurgical problem.
Mr. Fry, Mr. Sweeney, Mr. Felton, Mr. Wood

- 15a, b. CONFERENCE.—A weekly meeting for the discussion of specific problems or details of processes or operations which cannot consistently be covered in the regular classes. Mr. Felton
20. HEAT TREATMENT.—*First semester, third year.* Two laboratory periods a week. For mechanical engineers.
Mr. Felton, Mr. Wood
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THE COOPERATIVE COURSES IN COMMERCE AND ADMINISTRATION

The College of Engineering and Commerce at the University of Cincinnati inaugurated a five-year cooperative course in commerce and administration beginning September 22, 1919.

This course is planned to meet a demand on the part of the larger business organizations for men thoroughly trained not only in the commercial side of business enterprises, but in the production side as well. The relationships between production, marketing, accounting, and finance are so close that a knowledge of all of them is essential to work in the higher commercial positions related to large business undertakings. The cooperative course includes theory and practice in all of these phases of business.

The general plan is the same in detail and operation as in the cooperative course in engineering; that is to say, students work alternating bi-weekly periods at practical work in business concerns and theoretical work in the University. The practical work during the first years is in certain carefully selected departments of production, in the shipping departments of large concerns, in the traffic departments of railroads, and in the planning departments of factories. This work covers a period of about two and one half years, after which the student is transferred to the commercial side of business for the next two and one half years. In the University, the courses follow the same general trend. The earlier years are given to mathematics, fundamental sciences, and to engineering; and the latter years to commercial subjects such as accounting, finance, marketing, business law, management, and so on. As in the cooperative engineering course, students are paid for their practical work in business concerns.

Thus it is intended to prepare students for careers in the commercial world as thoroughly and as broadly as they are trained for work in the various fields of engineering, and to fit them upon graduation to take positions of responsibility in commercial and industrial concerns.

DEPARTMENT OF COORDINATION

The Department of Coordination is responsible for the smooth and successful operation of the cooperative courses in the industries. All questions regarding wages, transfers, and changes of jobs are handled by this department. There is a coordinator for every course—Mechanical, Electrical, Civil, Chemical, Metallurgical, and Commercial Engineering—and these coordinators confer with the employers in planning the courses in practical work so that the students get a logically and carefully arranged training.

In order that the studies in the University may be definitely coordinated with the practical work, the coordinators make a direct correlation of the work of the shop with the instruction given in the University. They make a careful study of each cooperating firm, and devise organization charts showing the various kinds of work which a student can most profitably follow. In addition to the organization chart, a graphical record is made for every student, which shows the various kinds of work that the student has done during the five years of his course. In this way every student's record is under constant scrutiny by the coordinator of his department.

In addition to planning schedules of the students' practical work, the coordinators meet students in the classroom during the two weeks they are in school. In these classes all problems of shop layout and construction, shop organization and management, shop planning and accounting, chemical and metallurgical control of materials and processes, power transmission, heating, ventilating, lighting, etc., are discussed.

SCHEDULE OF COORDINATION CLASSES

ASSISTANT DEAN BURNS; PROFESSOR WILLARD; ASSISTANT PROFESSOR JANDA; MR. DRUFNER; MR. MESSINGER; MR. NORTON; MR. WOOD

C. 1a,b. Recitations and discussions based on the student's observation and knowledge of the outside work and its relation to his studies. Lectures and reports on trips of inspection to industrial plants. Lectures on principles and practice of safety. Two hours a week, *first and second semesters*. For all first-year students in engineering and commerce.

Mr. Janda, Mr. Drufner, Mr. Messinger, Mr. Norton, Mr. Wood

C. 2a,b. Written and oral discussions by the students based on observation and experience gained through their connection with the outside work, and the correlated theoretical knowledge acquired in the classrooms. Lectures on first aid. Two hours a week, *first and second semesters*. For all second-year students in engineering and commerce.

Mr. Janda, Mr. Drufner, Mr. Messinger, Mr. Norton, Mr. Wood

- C. 8. PRODUCTION ENGINEERING.—Development of industrial systems; principles of management; psychology of management; factory organization; labor problems; working conditions; safety and welfare; industrial location; time and motion study; wage systems; design of industrial plants; industrial plant transportation problems; maintenance of industrial plants. Three hours a week, *first and second semesters*. For fourth-year students in electrical and mechanical engineering and fifth-year students in chemical engineering. Mr. Willard
- C. 9a,b. ACCOUNTING AND MANAGEMENT.—Records and their graphical presentation; standardization; production schedules; the planning department; scheduling and dispatching; the jobbing shop; production methods and operations; maximum production; interchangeable manufacture; salvage; the tool room; jigs and fixtures; the engineering department; the stores and stock department; the purchasing department; the cost department and shop accounts; the sales department. Three hours a week, *first and second semesters*. For fifth-year students in electrical and mechanical engineering. Mr. Willard ✓
- C. 10. ENGINEERING MANAGEMENT.—Principles of management; city administration; engineering office organization and methods. Three hours a week, *second semester*. For fourth-year students in civil engineering. Mr. Willard
- C. 11. CONSTRUCTION ENGINEERING.—Organization for construction; working conditions; housing; motion study; wage systems; timekeeping; laying out construction plants; planning and scheduling work; handling material; construction equipment; aesthetics of construction. Three hours a week, *first and second semesters*. For fifth-year students in civil engineering. Mr. Willard

SPECIAL COURSES IN ENGINEERING

Special courses for young men who have had practical experience in some branch of engineering and who desire to become more efficient in the advanced theory of their work, are arranged by the Dean of the College of Engineering and Commerce, and every facility is offered to enable such men to obtain the special work which they desire without their being candidates for the engineering degree.

GENERAL COURSES OF INSTRUCTION

1919-1920

APPLIED MATHEMATICS

- 1a. TECHNICAL MECHANICS.—*First semester.*
 Sec. I (civil and chemical engineers): 8:30-9:30, daily
 Sec. II (electrical and mechanical engineers): 9:30-10:30,
 daily Mr. Slocum
- 2b. STRENGTH OF MATERIALS.—*Second semester.*
 Sec. I (civil and chemical engineers): 8:30-9:30, daily
 Sec. II (electrical and mechanical engineers): 9:30-10:30,
 daily Mr. Slocum
- [110a. THEORY OF ERRORS AND METHOD OF LEAST SQUARES.] *First semester*, three hours a week. Mr. Slocum
 Omitted in 1919-1920
- [111b. FOURIER'S SERIES AND SPHERICAL HARMONICS.] *Second semester*,
 three hours a week. Mr. Slocum
 Omitted in 1919-1920
- 116a. THEORETICAL MECHANICS.—*First semester*, Th., 11:30-12:30;
 F., 10:30-11:30. Mr. Slocum
- 116b. THE MATHEMATICAL THEORY OF ELASTICITY.—*Second semester*,
 Th., 11:30-12:30; F., 10:30-11:30. Mr. Slocum
126. THE HISTORY AND TEACHING OF MATHEMATICS.—*Throughout the year.* Th., 4:00-6:00. Mr. Slocum

ASTRONOMY

3. SPHERICAL AND PRACTICAL ASTRONOMY.—Once a week throughout
 the year. Mr. Porter
4. CELESTIAL MECHANICS.—Once a week throughout the year.
 Mr. Porter
- Courses 3 and 4 are given ordinarily at the Observatory.

ENGLISH

1. ENGLISH COMPOSITION AND LITERATURE.—Six or more sections;
 M., W., F., 10:30-11:30.
 Mr. Bengert, Mr. Van Wye, Mr. Stevens, Mr. Cummings

- 2a. ARGUMENTATION.—(For regular students only.) *First semester*,
 Tu., Th., 8:30-9:30. Mr. Van Wye
53. ADVANCED ENGLISH COMPOSITION.—(For third-year cooperative
 students only.) Six credits.
 C. E. and Ch. E. students, M., W., F., 9:30
 M. E. and E. E. students, M., W., F., 10:30
 Mr. Park, Mr. Bengert

In the following courses for cooperative students, inspection-trip, laboratory, and special reports are written under the direction of the Department of English. One hour of credit is given for the work of each semester and for that of each summer term. Written criticism of reports is supplemented by conferences, and, in the first year, by lectures on the principles of English composition. Conference and recitation hours are to be arranged.

41. FIRST-YEAR REPORTS AND CONFERENCES.—Three credits.
 Mr. Park, Mr. Bengert, Mr. Haehnle, Mr. Phillips
42. SECOND-YEAR REPORTS AND CONFERENCES.—Three credits.
 Mr. Park, Mr. Haehnle
43. THIRD-YEAR REPORTS AND CONFERENCES.—Three credits.
 Mr. Haehnle
44. FOURTH-YEAR REPORTS AND CONFERENCES.—Three credits.
 Mr. Bengert
45. FIFTH-YEAR REPORTS AND CONFERENCES.—The work of this year
 includes the preparation of a thesis. In the case of Senior
 civil engineering students, considerable attention is paid to
 public speaking. Two credits. Mr. Park

GEOLOGY AND GEOGRAPHY

2. ENGINEERING GEOLOGY.—Lec. and lab., Tu., S., 9:30-12:30.
 Mr. von Schlichten
9. HISTORICAL GEOLOGY.—Lec., Tu., Th., 8:30-9:30. Mr. Bucher
 Prerequisite: Course 2
11. PRACTICAL EXERCISES IN STRUCTURAL GEOLOGY.—Two hours
 credit. Tu., 4:00-6:00. Mr. Bucher
- 5b. FIELD GEOLOGY AND SURVEY METHODS.—*Second semester*. Hours
 and amount of credit to be arranged by agreement with each
 student. Mr. Bucher
 Prerequisite: Course 2

7. MINERALOGY.—Lectures and laboratory. M., W., F., 9:30-10:30; F., 1:00-4:00. Three credits. Mr. von Schlichten
12. PETROLOGY.—Tu., Th., 10:30-12:30. Two credits.
Prerequisite: Course 7 Mr. von Schlichten
22. APPALACHIAN FIELD COURSE.—Eight weeks during summer in camp in southwestern Virginia. Eight credits.
Mr. von Schlichten
25. MINERALOGY FOR ENGINEERS.—M., W., F., 9:30-10:30. Two credits. Mr. von Schlichten

GERMAN, FRENCH, OR SPANISH

40. ELEMENTARY GERMAN, FRENCH, OR SPANISH.—For cooperative students. Mr. Eberhardt
41. SECOND-YEAR GERMAN, FRENCH, OR SPANISH.—For cooperative students. Mr. Eberhardt

HISTORY

70. CONTEMPORARY PROGRESS IN EUROPE AND AMERICA.—In this course the intention is to present a brief survey of the historical development of Europe and the United States during the last century. Particular stress is laid on the social, economic, intellectual, and political issues in England, France, and the United States in the last fifty years, with a view towards a better understanding of present day problems in these nations.
Tu., Th., S., 8:30-9:30. Mr. McGrane

MATHEMATICS

- 1a, b, c. ALGEBRA; TRIGONOMETRY; ANALYTIC GEOMETRY.—
Sec. I, Mr. Kindle: 8:30-9:30, daily
Sec. II, Mr. Smith: 8:30-9:30, daily
Sec. III, Mr. Brand: 8:30-9:30, daily
Sec. IV, Mr. Salkover: 8:30-9:30, daily
Sec. V, Mr. Langenheim: 8:30-9:30, daily
Sec. VI, Mr. Tschudi: 8:30-9:30, daily
Sec. VII, Mr. Drufner: 9:30-10:30, daily
Sec. VIII, Mr. ———: 9:30-10:30, daily
Sec. IX, Mr. ———: 9:30-10:30, daily
- 5a, b, c. CALCULUS, DIFFERENTIAL AND INTEGRAL.—
Sec. I, Mr. Hancock: 10:30-11:30, M., Tu., Th., F.
Sec. II, Mr. Brand: 9:30-10:30, daily
Sec. III, Mr. Kindle: 9:30-10:30, daily
Sec. IV, Mr. Smith: 9:30-10:30, daily
Sec. V, Mr. Tschudi: 9:30-10:30, daily
Sec. VI, Mr. ———: 9:30-10:30, daily

- C.E. 17a, b. ANALYSIS OF STATICALLY INDETERMINATE STRUCTURES.—F., 1:00-4:00. Mr. Brand
- 6a. ADVANCED ANALYTIC GEOMETRY OF TWO DIMENSIONS.—Lectures. C. Smith, *Conic Sections*. Mr. Kindle
Prerequisite: Math. 5
- 7b. ANALYTIC GEOMETRY OF THREE DIMENSIONS.—Lectures. C. Smith, *Solid Geometry*. Mr. Kindle
Prerequisite: Math. 5
- 8a. ADVANCED INTEGRAL CALCULUS.—Lectures. Byerly, *Integral Calculus*. Mr. Hancock
- Mech. 2a, b. DYNAMICS.—M., Th., S., 10:30-11:30. Mr. Brand
- 30a, b. MATHEMATICAL ANALYSIS.—Infinite series; Taylor's Expansion; partial and total derivatives; theory of least work; theory of errors and method of least squares; empirical curves; graphical computation. For students in civil engineering. Tu., W., F., 10:30. Mr. Brand
- 31a, b. MATHEMATICAL ANALYSIS.—Infinite series; Taylor's Expansion; elementary forms of Fourier's Series; complex quantities; hyperbolic functions; partial derivatives; multiple integrals; differential equations; empirical curves. For students in electrical engineering. Tu., Th., S., 10:30. Mr. Kindle
- 35a. CALCULUS AND DIFFERENTIAL EQUATIONS.—Infinite series; Taylor's Expansion; partial and total derivatives; multiple integrals; differential equations. For students in mechanical engineering. Tu., Th., S., 10:30. Mr. Smith
- 36a, b. VECTORIAL MECHANICS.—Lectures. Mr. Brand

PHYSICS

- 1a. GENERAL PHYSICS.—Lectures and recitations on light and heat, illustrated with experimental demonstrations. Six times a week. Mr. Gowdy
- 21b. GENERAL PHYSICS.—Lectures and recitations on thermo-dynamics, electricity, and magnetism, illustrated with experimental demonstrations. Six times a week. Mr. Gowdy

BASIC TRAINING FOR ALL ARMS

SUBJECTS	FIRST YEAR		SECOND YEAR		THIRD YEAR		FOURTH YEAR	
	Hours		Hours		Hours		Hours	
	Theo.	Prac.	Theo.	Prac.	Theo.	Prac.	Theo.	Prac.
Organization	1 1/2	1	1 1/2	1				
Military courtesy and discipline	1	3		2				
Drill	10	34	5	21				
Care and handling of arms and equipment.	1	10	1	10				
Small arms firing	2	12	2	12				
Personal hygiene; first aid; sanitation	2	2		2				
Interior guard duty	2	3		2				
Minor tactics	1/2	5	1/2	5	7	20		22
Morale	2		1					
Physical training	As much of the drill period as is practical and does not duplicate the work of the physical director of the college							
*General	17				18		15	
Liaison for all arms			2		2			
Topography and map reading			2	1	2	6		7
Signaling				2				
Field engineering					2		8	
Camp sanitation; care of troops in field					1		5	
Law: common; military					10		5	
Military policy; history ceremonies					4		6	
Company administration							5	
Hippology							4	
TOTAL	2 1-17-70		14-58		28-18-29		28-15-29	
GRAND TOTAL ..	108		72		72		72	

*General. To be used at discretion of senior instructor to make up deficiencies or conduct refresher course, etc.

NOTE.—The third and fourth-year programs are covered in the third, fourth, and fifth

ENGINEER SPECIAL

SUBJECT	SECOND YEAR		THIRD YEAR		FOURTH YEAR	
	Theo.	Prac.	Theo.	Prac.	Theo.	Prac.
Military map making and map reading		12		12		12
Organization	4					
Military bridges and river crossing..	6					
Fortifications	6		16			
Roads and communications.....	8					
Light railways.....			4			
Explosives, demolitions, and mine warfare			4			
Academic engineering courses of military value					72	
Functions and staff relations of engineers					4	
Map problems involving engineer problems encountered during the war					7	
Terrain exercises.....						8
Organization and administration of engineering projects					1	
Thesis on military engineering subjects					4	
Training common to all arms.....	14	58	28-18-26		28-15-29	
TOTAL	38	70	124-18-38		116-15-49	
GRAND TOTAL	108		180		180	

NOTE.—The third and fourth-year programs are covered in the third, fourth, and fifth years of the College of Engineering and Commerce.

COAST (HEAVY) ARTILLERY SPECIAL

SUBJECT	SECOND YEAR		THIRD YEAR		FOURTH YEAR	
	Theo.	Prac.	Theo.	Prac.	Theo.	Prac.
Material	36					
Gunnery			36			
Orientation			24	36		
Coast Artillery drill regulations....			12			
Ballistics Exterior					36	
Ordnance					42	
Organization of the Artillery.....					6	
Tactical problems					24	
Basic training for all arms.....	14	58	28-18-26		28-15-29	
TOTAL	50	58	100-18-62		136-15-29	
GRAND TOTAL	108		180		180	

NOTE.—The third and fourth-year programs are covered in the third, fourth, and fifth years of the College of Engineering and Commerce.

EVENING COURSES IN COMMERCE

LECTURERS

ACCOUNTING AND FINANCE

JOHN C. DUNCAN, PH.D.	Lecturer on Accounting and Finance
B. G. GRAHAM	Lecturer on Accounting
G. W. TRUMBULL	Lecturer on Accounting
R. M. ATKINS	Lecturer on Finance

ADMINISTRATION

R. H. FUNKE	Lecturer on Administration
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COMMERCIAL LAW

H. F. KOENIG, JR., CH.E., B.C., LL.B.	Lecturer on Law
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ENGLISH

B. W. JENKINS, A.B.	Lecturer on Business English
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MARKETING

C. R. HEBERLING	Lecturer on Marketing
F. M. RENSHAW	Lecturer on Marketing
T. J. MOORE	Lecturer on Marketing
F. R. OLIVER	Lecturer on Marketing

PURPOSE

The College of Engineering and Commerce offers an evening session in Commerce for the special benefit of those who are unable to avail themselves of the day classes.

ADMISSION

Persons desiring to take the Evening Commerce Course as candidates for credit may enter as matriculates or as special students. Application should be made to the Dean of the College of Engineering and Commerce, University of Cincinnati.

MATRICULATES

REQUIREMENTS FOR ADMISSION

Candidates for a degree must be at least sixteen years of age and must present fifteen units, to be distributed as follows:

ENGLISH.—Three units

ALGEBRA.—One unit

HISTORY.—One unit

In addition to these specific requirements the candidate must offer seven units from the following: English, mathematics, language, history, physics, chemistry, zoology, botany, physical geography, commercial geography, astronomy, physiology, plane geometry, or solid geometry.

The remaining three units shall constitute a "free margin;" that is, the University will accept any three units which the secondary schools themselves credit towards graduation.

SPECIAL STUDENTS

Persons at least twenty years of age and qualified to do university work may be admitted as special students to lectures and laboratory courses. They are required to furnish documentary evidence to the Dean of the College of Engineering and Commerce, and to satisfy the heads of the departments concerned of their ability to carry on successfully the courses which they desire to enter.

Before any special student may become a candidate for a degree he must satisfy the entrance requirements. All special students are amenable to the same regulations as apply to regular students in matters of examination, probation, discipline, etc.

AUDITORS

Persons not desiring credit for work done may be admitted to the evening classes as auditors. Candidates for admission as auditors are required (a) to secure permission from the Dean of the College of Engineering and Commerce; and (b) to satisfy the teachers of the classes which they desire to enter that they can pursue the work with profit.

Auditors are required to comply with all general regulations, including those with respect to registration, payment of fees, and attendance, and to perform such work as the teachers of their classes may prescribe.

COURSES OF INSTRUCTION

1919-1920

ACCOUNTING AND FINANCE

ACCOUNTING

1. **PRINCIPLES OF ANALYTICAL ACCOUNTING.**—The student is shown how to construct and analyze the accounts of the income and expense statement and balance sheet of ordinary mercantile and industrial concerns. He is also required to interpret the business and financial conditions of these concerns, from the accounts so analyzed. If the student has not had bookkeeping or bookkeeping experience, he should precede or accompany this course in Principles of Analytical Accounting by Principles of Constructive Accounting. Lectures and problems. Tu., 8:00-9:45.

Mr. Duncan

2. **PRINCIPLES OF CONSTRUCTIVE ACCOUNTING.**—The student is introduced to accounting through bookkeeping. He is required to open, carry through, and close transactions through the commercial books for individuals, partnerships, and corporations. In the second semester the student is shown how to design and use accounting books and forms, with the object of making the greatest possible savings in bookkeeping and clerical work. He is familiarized with various mechanical devices for saving time and labor, and is shown how to employ them in accounting practice. He is also shown how to prepare copy for the printer and the blankbook maker. Tu., 6:15-8:00.

Mr. Trumbull

3. **ADVANCED ACCOUNTING.**—A problem course in which is considered the handling of capital, revenue, good-will, treatment of bad debts, maintenance and depreciation reserves and sinking funds, contingent funds, secret reserves, and the like. It will further consider organization and dissolution of partnerships, organization of corporations and holding companies, realization, liquidation, insolvency, and special topics, such as executor accounts and brokerage and banking. Lectures and problems. Th., 6:15-8:00.

Mr. Duncan

4. **COST ACCOUNTING.**—This course takes up the subject of designing and installing cost accounting systems for different kinds of mercantile, manufacturing, and financial enterprises. The principles underlying the subject are firmly impressed on the student's mind, and approved modern methods are illustrated by means of lectures and problems. Th., 8:00-9:45.

Mr. Graham

5. **AUDITING.**—Discussion of the duties and responsibilities of an auditor; the kinds of audits that can be made, and the value of each; the auditor's report, what it should contain; his certificate, its value; the preparation of audit reports; the making of income tax returns. Lectures and problems. M., 6:15-8:00. Mr. Duncan

FINANCE

1. **THE PRINCIPLES OF FINANCE.**—This course presents the various phases of business financiering so that the student may understand their essential characteristics, the mutual relations existing between them, and the significance of each to the business as a whole.

The subjects studied are: the nature and function of finance in modern business; the stock exchange; investment bankers; commercial banking relations; the nature of domestic and foreign exchange; financial practice and problems of corporations; the nature and use of commercial paper; and investments and their relation to general business. M., 8:00-9:45. Mr. Duncan

5. **CREDITS AND COLLECTIONS.**—The course begins with a consideration of the relation of the credit system to the organization of the present day commercial world. Following this, the subject is presented from the standpoint of the credit man. It includes a study of banking credit, personal credit, and mercantile credit.

The following subjects are studied: credit instruments; the organization and technique of the credit department; the source of credit information; the analysis of credit information and financial statements; the work of associations of credit men, including exchange bureaus and adjustment bureaus; legal problems of credit, such as concern bankruptcy and insolvency. F., 8:00-9:45.

Mr. Atkins

ADMINISTRATION

1. **ELEMENTS OF BUSINESS ADMINISTRATION.**—This course is designed for the person who looks forward to being a business executive. It opens with a discussion of the factors which make for success in any kind of an enterprise, viz., location, lay-out and arrangement of plants, structure of buildings, internal organization, management, and selling. The course considers the relationship that should exist between the different expenses in different kinds

of enterprises, viz., materials, wages, operating charges, selling and administrative expenses. Coincident with the discussion of these factors, the student is shown how to analyze the accounting data so as to localize weaknesses in all of the administrative divisions of concerns. He is also shown how to make reports and present data to executives, so that they may see the actual business conditions of the enterprise as a whole and in all its parts. W., 8:00-9:45. Mr. Funke

COMMERCIAL LAW

1. **LEGAL RELATION OF BUYER AND SELLER.**—In this course the relation of buyer and seller is traced to its origin in contract. The place of the contract in business is then examined, after which the general subject of contracts is studied at length. Especial attention is given to the contract of sale and the "Uniform Sales Act." The principal divisions are: offer and acceptance; parties; the consideration or price; formalities; legality of the object (with references to criminal law and torts); the reality of the consent, that is, the absence of fraud, mistake, undue influence, and duress; conditions and warranties; misrepresentations not amounting to fraud; implied terms in special contracts; interpretation, construction, and operation of contracts; discharge of contracts by operation of law and by act of the parties. The case method is used. Th., 6:15-8:00. Mr. Koenig
2. **LEGAL RELATION OF DEBTOR AND CREDITOR.**—This course begins with the rights of an unpaid seller. It proceeds to show how the protection of the creditor's rights in law has contributed to the evolution of the credit system, and how, with the growth of that system, new means to safeguard the creditor have been provided. These include the means provided by law for subjecting a debtor's property to the payment of his debts, and contractual provisions for security, as in the cases of liens, mortgages, guaranty, and suretyship. The second half of the course is devoted to the law of commercial paper under the following heads: nature, characteristics, and place in business life; form; negotiation; the implied terms of the maker's and acceptor's contract; the implied terms of the drawer's and indorser's contract. Selected cases. W., 6:15-8:00. Mr. Koenig

Prerequisite: Commercial Law 1

3. **LAW OF BUSINESS ORGANIZATION.**—This course deals with the relation between master and servant, the relation between principal and agent, the partnership relation, and, finally, the corporation. These taken together form a series of internal business relations. The history of these relations, as they have developed from each other in the order named, is traced in outline to show the function of the law as a cementing force in the business structure. Under each set of relations the following topics will be studied: the formation of the relation; the mutual rights and obligations of the parties; the rights and obligations of third parties; and the dissolution of the relation. Lectures, selected cases, and students' reports. W., 8:00-9:45. Mr. Koenig
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ENGLISH

1. **BUSINESS ENGLISH.**—This course is planned for correspondents, stenographers, and such other persons as are interested in the present movement to humanize business English. The various types of letters, such as letters of application, adjustment, sales, follow-up, and collection, will be studied. The written work will consist mainly of letters. In addition there will be lectures, class discussions, and written reports on assigned readings.

The course presupposes a knowledge of the principles of grammar, punctuation, and sentence structure. A rapid survey of these will, however, be given in order to refresh the minds of the students. F., 6:15-8:00. Mr. Jenkins

MARKETING

3. **ADVERTISING.**—This course covers both the theoretical and practical sides of advertising. The students are first given a thorough grounding in the principles of advertising, and later the entire time is devoted to practical work. Each student works out the advertising problems of his own business. Special campaigns are assigned the class for practical solution. Great stress is laid on copy writing and planning. The course covers the following: the history of advertising; the psychology of advertising; trade marks and trade names; market analysis; copy; layout; art type; plates; printing; newspaper, magazine, and direct advertising; sales letters; bill board and street car advertising. Special lecturers address the class throughout the course. M., 8:00-9:45. Mr. Moore

4. **SALESMANSHIP.**—The student takes up in detail the following subjects: nature, distribution, and elasticity of human wants; effective demand as influenced by income, social class, and custom; the technique of selling,—the approach, exposition, and persuasion: qualities of the salesman; plans sales; credits and sales; records of sales and selling costs. In the latter half of the course, salesmen from representative commercial establishments of Cincinnati will address the class and conduct sales demonstrations. M., 6:15-8:00. Mr. Oliver
5. **SALES PROMOTION.**—This course is designed to assist salesmen and those engaged in executive sales work in enlarging their perspective on the organization, equipment, and operation of a sales department. The work is reinforced with instruction in fundamental marketing conditions, such as sources of raw materials, markets, transportation facilities, and the like. Selection of employes, especially salesmen, is discussed. The latter part of the course is devoted largely to class conferences on the important problems of the sales department. M., 8:00-9:45. Mr. Heberling
6. **TRAFFIC MANAGEMENT.**—The object of this course is to fit the student for the actual work of handling traffic problems that arise in the transaction of business. The textbook used gives a summary of the origin, growth, and development of the railroads, and presents a comprehensive view of the organization of a railroad in all its departments, a description of the various services performed, and the methods and equipment used. Among the various subjects included are tariff construction and use, making out of bills of lading, routing and rating shipments, auditing freight bills, presentation and handling of claims and problems in demurrage, storage switching, etc. Th., 8:00-9:45. Mr. Renshaw

I. THE COLLEGE OF MEDICINE OF THE UNIVERSITY OF CINCINNATI

(For list of officers of instruction and administration, see pages 27-42)

1. HISTORICAL STATEMENT

Through adoption of its new city charter by the City of Cincinnati in 1916 the College of Medicine of the University of Cincinnati (a municipal institution) and the Cincinnati General Hospital (also a municipal institution) were fused into a single organization administered by the Board of Directors of the University of Cincinnati. This act made permanent an arrangement which had previously been existent as an affiliation. The faculty of the College of Medicine thus became the attending staff of the General Hospital and, conversely, the attending staff of the hospital became responsible not only for the care of Cincinnati's ill poor but for the teaching of the medical students. The whole arrangement now assures the public that the highest medical and surgical skill present in this city will be available for the good of its charges, while, on the other hand, the teaching possibilities incident to the care of many hundred ill are taken advantage of for the training of capable medical men. The foundation cost to the public of meeting in this way the needs of its sick poor is in no way increased, for the need and cost of maintaining a municipal hospital is the same as heretofore, while all the benefits of having at its disposal the energies of a medical faculty maintained, in the main, through the generous enterprise of Cincinnati's citizenship are added without cost to the municipality. Indirectly all the combined costs are repaid Cincinnati and the surrounding country in the better skill of the medical men who are the product of such a teaching hospital. Almost sixty percent of the practitioners of Cincinnati and its environs are graduates of this school.

The College of Medicine of the University of Cincinnati has since 1909 incorporated within itself all the best medical interests which made Cincinnati famous as a medical center in the last half of the last century. Historically, the present College of Medicine is, therefore, the outgrowth of the old Medical College of Ohio, the Miami Medical College, the Pathological School of the Cincinnati General Hospital, the Cincinnati College of Medicine and Surgery, and the Laura Memorial Medical College.

2. GENERAL PLAN OF EDUCATION

It will be seen from this that the medical department of the University of Cincinnati is both in spirit and in fact a unit. All the courses required for graduation in medicine are given in the buildings constituting the laboratories and wards of the College of Medicine and the General

Hospital, with its Out-Patient Dispensary. Free and continuous contact between the so-called academic branches of medicine and the clinical years is thus maintained. After satisfying his college of liberal arts requirements the student is inducted into the medical atmosphere, by entering the laboratories of anatomy, biochemistry, physiology, pathology, and bacteriology. In the second half of his second year he begins to make contact with clinical courses, all of which are given in the wards, classrooms, and amphitheatres of the hospital buildings. Free intercourse between the professors and instructors of the first two and last two years of the medical curriculum in laboratories and scientific and social gatherings is thus maintained. Easy access of students to professors and instructors is fostered, as is also an easy play between the scientific laboratories and the clinics on the one hand and the clinics and scientific laboratories on the other, in order that education in the academic branches may not become too academic, and the practical work of care for the ill not too practical.

3. MATERIAL EQUIPMENT

The physical equipment of the College of Medicine as it now stands covers 67 acres. The divisions represented by the General Hospital, the Out-Patient Dispensary and medical instruction including all the physical necessities of clinical and laboratory work are housed in the 30 odd buildings now standing upon this ground. The Board of Trustees of the University of Cincinnati has medical administrative charge.

THE GENERAL HOSPITAL is owned by the city and has no accommodations for pay patients. Private patients are accommodated in five other large hospitals, one of which is just across the street from the General and three others within a mile. The Cincinnati General Hospital is one of the most modern, carefully designed, and completely equipped hospitals in the country. It was built at a cost of about \$5,000,000. It has 850 beds. It is built on the pavilion plan and embraces twenty-four large buildings, all connected by overground and underground corridors. The contagious group consists of a separate unit of seven pavilions similarly connected with each other. The hospital occupies a high and healthful location in a quiet and attractive part of the city. The equipment throughout is of a most modern and up-to-date character, a maximum of sunlight and air being provided by the style of building adopted.

The administration building houses the offices of the hospital, the general library, and the resident staff of the hospital. The admitting department is in a separate building containing waiting rooms, examination rooms, emergency operating rooms, male and female wards where patients arriving after 9 p.m. are kept until the next morning in order not to disturb the patients in the regular wards, dressing and bathrooms, and social service rooms. In its basement are located a clothing disinfecting plant,

and a tailor shop for repairing and pressing the patient's clothing, which is then kept in dust-proof fashion until his discharge. Here are also large and specially equipped rooms for sunstroke and poison cases.

The first floor of the surgical pavilion contains a large amphitheatre with a seating capacity of 250. On this floor are also two large operating rooms, with their suites of sterilizing rooms, surgeons', nurses', and students' preparation rooms, anesthetizing rooms, and recovery rooms. On the second floor are two smaller operating rooms and a dental operating room and laboratory. In the basement is located one of the most complete x-ray departments in this country and the drug department. The amphitheater and several operating rooms in the surgical pavilion are used for operative clinics and clinical lectures. Clinical instruction in both medicine and surgery and in the specialties is given in the eight large general wards and buildings of the hospital, and in the seven set aside for the infectious diseases.

The college has control of all the clinical facilities of the hospital, its professors forming the staff of the institution. Clinical instruction in each department is therefore under the direction of specialists. Didactic lectures in medicine, surgery, etc., are also provided for in the college building.

In addition to the above, the College of Medicine has entered into a cooperative agreement with the *Cincinnati Board of Health*, under the terms of which students of medicine receive advantages that could not otherwise be enjoyed. This cooperative work is noted on page 274.

THE BRANCH HOSPITAL FOR TUBERCULOSIS is a part of the General Hospital and is administered by its staff. It consists of some six well equipped pavilions and a laboratory located pleasantly on high ground in the suburbs of Cincinnati. Students spend from one to two whole days here a week for one semester in their Junior year, studying the patients from their reception into the hospital, through wards and laboratories, into the postmortem room if death occurs.

THE NEW COLLEGE DISPENSARY.—Through the generosity of Hospital Commissioner Charles Boldt, the facilities for clinical teaching in the College of Medicine were greatly furthered by the establishment of the commodious and splendidly equipped Out-Patient Dispensary. This occupies the basement floors of three of the general ward buildings, and was opened in May, 1917. Connected with it are a general administrative staff and a large corps of nurses and social service workers. A drug department and clinical laboratories are also included. The dispensary contains the following departments, each under the direction of a chief: medicine, surgery, pediatrics, obstetrics, gynecology, orthopedics, neurology, genito-urinary surgery, ophthalmology, otology, and laryngology, and is open daily. Over 30,000 patients were treated at the dispensary last year.

THE LABORATORIES for anatomy, biochemistry, physiology, pharmacology, bacteriology, and pathology are housed in what is known as the college of medicine building and the pathologic institute. *The College of Medicine building* was completed, ready for occupancy, in October, 1917. It was built largely by the generous gift of Mrs. Mary M. Emery, and with equipment has cost about \$750,000.

The building houses the departments of anatomy, biochemistry, physiology and pharmacology. Its surroundings are clean, quiet and attractive. It is a brick and concrete structure, four stories high, built in the shape of the letter E and has a frontage of 300 feet. The stories are unusually high, and the lighting and ventilation are unsurpassed. There is an animal house with quarters for attendants and runways for animals outside of the main building. The departments of anatomy and histology are in the north wing, of physiology and biochemistry in the south wing, and of pharmacology in the central portion. Here also are the offices, library, large assembly hall and dining hall for students and faculty. The assembly hall seats 500 and is equipped with projection apparatus and moving picture apparatus of the modern type.

The departments of pathology and bacteriology are taken care of in the *Pathologic Institute*. The basement of this building is occupied by workrooms where culture media are made, by a cold storage room and incubators, and the coroner's postmortem room. The first floor is occupied by the student laboratory of clinical pathology, a stockroom, a special laboratory for serology, and one for special work upon the secretions and excretions of the body. Attached to the latter is a spectroscopic room. The second floor is devoted to pathology, administrative offices, and the postmortem amphitheater. The third floor is devoted to bacteriology and a series of private laboratories. The fourth floor is occupied by the photographic suite and the museum. The fifth floor is devoted to animal hutches and animal operating rooms. The museum of the pathologic institute contains a large number of anatomical and pathological specimens, including the Mussey and the Shotwell collections, the former the gift of the late Dr. Nathaniel Pendleton Dandridge.

OTHER FACILITIES.—The faculty of the College of Medicine is largely represented in the staffs of the *Good Samaritan Hospital*, *Christ Hospital*, *the Jewish Hospital*, *the Deaconess Hospital*, *St. Mary's Hospital*, and the *Episcopal Hospital for Children*. While no regular place in the college schedule is allotted for clinical teaching in these institutions, there is abundant opportunity for utilizing their large amount of clinical material.

LONGVIEW HOSPITAL FOR THE INSANE contains 1,550 beds. Clinical lectures on mental diseases are given here during February and March each year. These lectures and clinics by members of the faculty of the College of Medicine are made possible through the courtesy of Dr. E. A. North, superintendent of the hospital. Admission to these lectures is open to Seniors, whose attendance is mandatory, and to practitioners of medicine.

4. MEDICAL LIBRARIES

The library facilities of the College of Medicine are large. In 1911 Miss Lena Dandridge presented to the college the library and library furniture of the late Dr. N. P. Dandridge, and, in addition to this gift, Miss Dandridge gives annually a sum of money for the equipment and endowment of the surgical library, known as the Dandridge Memorial, and comprising over 4,000 volumes and 1,187 pamphlets. The Whittaker Medical Library, bequeathed by the late Professor James T. Whittaker, comprises 1,547 volumes and 538 pamphlets. The Seely Library, of the late Professor W. W. Seely, given to the college by Mrs. Seely, contains over 1,000 volumes and many pamphlets. Mrs. Eichberg has presented to the college the library of the late Dr. Joseph Eichberg, and the Library Association of Cincinnati has given its very valuable collection of books.

Beginning with this year a pro rata fraction of the Baldwin Endowment of the University becomes available for the acquisition of files and volumes of importance for workers in medical research.

The library of the Cincinnati General Hospital contains about 30,000 volumes, consisting largely of complete files of the more important medical and scientific periodicals of the world. Current literature in the University library comprises not only the more important American journals, but nearly one hundred foreign publications.

Research workers are also very generously permitted by Professor John Uri Lloyd and Mr. C. G. Lloyd to use the Lloyd Library, the most complete library of botany and pharmacognosy in the United States, if not in the world, and very rich also in works on pharmacology and pharmaceutical chemistry. It contains over 30,000 volumes.

5. REQUIREMENTS FOR ADMISSION

Candidates for admission to the College of Medicine must present the following:

(A) Certificate of graduation from an accredited high school covering work equivalent to 15 units. This requirement is identical with that exacted of students admitted to the College of Liberal Arts, as stated and defined in the Annual Catalogue, and the Announcement of the College of Liberal Arts.

(B) Certificate of having completed in a college of satisfactory standing 60 semesters hours of pre-medical work. All this work must have been completed in college and no credits given for work done in high school will be accepted. The following subjects must be included:

- (1) 16 semester hours in chemistry as follows:
 - (a) 8 semester hours in general inorganic chemistry, of which 4 must consist of laboratory work
 - (b) 4 semester hours in analytical chemistry, of which 2 must consist of laboratory work
 - (c) 4 semester hours in organic chemistry, of which 2 must consist of laboratory work
- (2) 8 semester hours in zoology or general biology, of which 4 must consist of laboratory work
- (3) 8 semester hours in general physics, of which 2 must consist of laboratory work
- (4) 6 semester hours in English composition and literature
- (5) 6 semester hours in a modern foreign language. This requirement, in the absence of college credits, may be removed by demonstrating an ability to read fluently French, German, Spanish, or some other approved language.

These specifications as to the nature of the subjects required meet the standards of the Association of American Medical Colleges and those of the War Department; in chemistry, and, to a lesser extent, in physics, they surpass them. For this reason students who complete their pre-medical courses in the College of Liberal Arts of this University are usually better prepared in chemistry, physics, and zoology than if the work is taken elsewhere. Prospective applicants for admission to the College of Medicine in Cincinnati are therefore urged to arrange their work in these subjects to conform to the pre-medical courses as set forth on page 263. Where the pre-medical student can encompass it he is urged to take in addition to the above a course of 4 semester hours in vertebrate embryology and a 4 semester hour course in quantitative chemistry. Advanced credit may be obtained for the work in embryology after entering the College of Medicine. If these things are done in the pre-medical years, time badly needed is gained for the successful completion of other subjects in medicine.

No students are admitted to regular standing if conditioned in any subject. This conforms to the rules of the Association of American Medical Colleges and the Council on Education of the American Medical Association. In exceptional cases, when the higher requirements only of this college are not entirely met, and when the Admission Committee is convinced that the applicant has unusual ability, can readily carry the full schedule of the first year, and that any conditions carried are more nominal than real, conditional entrance may be granted. But such entrance will be permitted only to those who remove all conditions before the beginning of their second year. The summer courses of the College of Liberal Arts

(see page 131) are designed to aid students in the removal of their conditions before entering the College of Medicine.

(C) The medical student's entrance certificate issued by the examiner for the Ohio State Medical Board. The regulations for securing this certificate may be obtained from the Secretary of the Ohio State Medical Board, Columbus, Ohio. This certificate has two uses:

(1) It certifies that the holder has satisfied the minimum educational requirements, as fixed by law, for admission to a medical college. It is therefore a prerequisite for matriculation in any medical college of the state. An applicant for admission to a medical college demanding entrance requirements for this certificate must: (a) secure this certificate, and (b) satisfy the registrar of the college of medicine with reference to all additional requirements.

(2) Together with a medical diploma, this certificate must be submitted to the Secretary of the State Medical Board by any applicant for admission to the examinations required of all who wish to practice medicine in the state of Ohio. It is also required in other states of practitioners who wish to practice there, by taking advantage of a reciprocity agreement.

(D) A certificate of good moral character signed by two physicians of standing in the state in which the candidate last resided.

Prospective medical students are urged to communicate their desire to enter the college well ahead of the opening of the autumn semester. It is advisable to write the Dean in the spring in order that application, credentials, etc., may be examined and passed upon. If the student is deficient in requirements, the summer months are then available for getting these off. The student must, in any case, meet the Committee on Admission not later than the appointed days for registration in September or February. If entrance examinations need to be taken, the candidates must meet the Committee on Admission on the days set for these examinations.

Students may matriculate at the beginning of the first semester or at the beginning of the second, but it is recommended and advisable to enter at the beginning of the first semester, as the sequence of subjects of the medical curriculum is then the more natural one.

6. RULES GOVERNING MEDICAL STUDENTS

SPECIAL STUDENTS.—Graduates of medicine or others desiring to take courses not leading to graduation may be registered as special students and be admitted to such courses as they are fitted to undertake without preliminary examinations, but only by permission of the professor in charge of the course and upon payment of the fees required. The work so done may be accepted for credit later, under the rules of "Credit for Work in Medical Colleges," stated on page 261.

REQUIREMENTS FOR COMPLETION OF A COURSE.—The satisfactory completion of a course shall be determined by the professor in charge, through examinations, records of attendance, and the daily work of the student. To pass in a course the student must satisfy the legal minimum of (a) attendance of at least 80 percent of the scheduled lectures, recitations, quizzes, laboratory periods, and clinical or other appointments in the course; and (b) a grade of 75 percent.

It is to be clearly understood, however, that such minima need not be and are not acceptable to the medical faculty. An explanation satisfactory to the professor in charge may be required of every absence or tardiness, and no student maintaining himself merely at the passing grade in one course after another can hope long to escape notice that he had best drop medicine or go elsewhere. It is the aim of the college not merely to turn out graduates in medicine but capable ones.

A student who has failed in a course may be required, at the discretion of his professor, to repeat his attendance upon a part or the whole of the course, or he may be re-examined after a suitable period of study. Attendance on vacation courses or private instruction will only be accepted for credit by the faculty on recommendation of the professor in charge.

The student is graded on the following University of Cincinnati basis, which has been so scaled upwards as to satisfy the minimum legal demands of every state in the Union which issues licenses for the practice of medicine:

One grade only is reported for each course. This grade is based on (a) quality of work done in the class, (b) regularity of attendance, (c) the grade in final examination, (d) the grade in such other tests as the instructor may employ.

The grades when expressed by letters mean:

A = 90 to 100 percent

B = 80 to 89 percent

C = 75 to 79 percent

D = 60 to 74 percent (condition)

E = below 59 percent (failure, no credit)

W = Withdrawn officially at the student's own choice, by a coupon from the Dean, or on a notice of withdrawal from the Registrar

Left = Student stayed away from class and was not officially withdrawn

Dropped = Required by the Dean to drop the course for poor work

ab = Absent from the examination. If the student is absent from the examination and his work has been poor, a grade of "D" or "E" may be reported, at the discretion of the instructor.

• Students who are conditioned, upon payment of the fee for a supplemental examination, will be given an opportunity to obtain credit by a special re-examination.

No examination for the removal of a condition shall be given before the period of the next regular semester or mid-semester examinations, with this exception, that a student conditioned at the end of the second semester may be examined for the removal of such condition during the opening week of the next semester following, provided he has taken work during the intervening vacation under the direction of the head of the department in which the condition was given.

Students who have been absent from the semester examinations may, at the discretion of the Dean and the heads of the departments concerned, be admitted to subsequent examinations in such work, upon the payment of the fee for a supplemental examination.

Unexcused absence from a regular examination is construed as a failure therein.

Any condition that is not removed within one year shall lapse into a failure.

The standing of "c" is the highest mark which any student may receive as the result of re-examination for the removal of a condition.

A standing of "c" is the highest mark which any student may receive as the result of an examination for the removal of "ab," except when the absence is because of prolonged and serious illness, or unavoidable detention, to be determined by the Dean, in which case the student may receive the grade rightly earned.

If the study in which the student is conditioned be a continuous one, the instructor in charge may, at his discretion, excuse the student from re-examination and allow him to obtain credit by passing his study successfully during the following semester. In such case the student shall be required to pay the fee for supplemental examinations. If such a student fails in the work of the second semester, he shall be regarded as having failed in the work of both semesters, with the standing of "E."

Students who are forced to repeat a course on account of having had an excessive number of absences, or on account of failure, shall be given such credit as they may rightfully earn, and not merely a grade of "c."

PROMOTIONS.—To enter any course a student must have completed the required courses of study which supply the preliminary preparations for that course. The prerequisite courses will be defined by the heads of departments.

Examinations shall be held at the completion of each course and at such other times during the course as the instructors may require. A student who is conditioned must take a special examination. A failure in a course requires repetition of the course.

Students who at the end of the first or second year have recorded against them failures in any two of the following major subjects—gross anatomy, biochemistry, physiology, pharmacology, pathology, or bacteriology—will not be permitted to take further work in the school except by special permission of the Dean, subject to approval by the faculty.

Students who in any semester make a consistently poor record in a majority of their subjects, having, for example, an average grade of "D," may at the option of the faculty and on recommendation of the Dean be refused further registration in the school.

No student will be permitted to enter upon the work of the Senior year until he has passed all courses of the first two years, and he must have all conditions or failures of the Junior year removed before entering the last semester of the Senior year.

REQUIREMENTS FOR GRADUATION.—To receive a diploma from this college the student must comply with the following conditions:

1. The regulations of the Ohio State Medical Board in regard to registration as a medical student and admission to the college (as above explained).

2. He must have been in residence in a medical college recognized by this University for at least four years, and his last year of residence must have been in this college.

3. He must have attended at least 80 percent of all the scheduled appointments of the courses, and have attained a satisfactory standing in all the required courses.

4. He must have passed all courses of the first two years before beginning his Senior year.

5. He must have discharged all his financial obligations to the University.

6. Diplomas will only be granted at the regular commencements of this college, when they will be conferred upon the candidates in person by the President of the University.

Degrees will not be conferred *in absentia*, except by special permission from the President.

7. RULES REGARDING ADVANCED STANDING

CREDIT FOR COURSES IN COLLEGES OF LIBERAL ARTS.—Students who have taken, in colleges of liberal arts recognized by this University, courses fully equivalent to the similar courses offered in this College of Medicine and produce certificates of this fact, need not repeat such courses here. But credits allowed for such work do not entitle the student to advanced time standing, for, according to the various state and other laws, such subject credits for work not taken at a medical college cannot shorten the required residence to less than 45 calendar months between time of matriculation and issuance of a diploma in medicine.

CREDIT FOR WORK IN COLLEGES OF MEDICINE.—Students from accredited colleges of medicine may be admitted to advanced standing under the following rules:

1. They must present evidence that they have met in some other college the equivalent of the requirements for admission to this college and they must have completed satisfactorily all courses of the same scope and extent as the courses for which they seek credit in this college.

2. They must present credentials from the registrar or corresponding officer of the college of medicine from which they come, showing that they have been registered medical students in residence for the time for which time credit is sought.

3. In order to obtain credit for a whole or any part of a course, the student must file with the Dean, before the opening of the college year, a credit application blank, in duplicate, showing where the work was done, the names of the professors, dates of the beginning and the end of the course, the number of hours per week and weeks in the course, the total number of lectures or recitations, of laboratory or clinical work, and the grades received. This application should be accompanied by certificates, supporting the above facts, from the registrar of the college or the professor under whom the work was done, by the catalogue or schedule of the institution, and by the notebooks of the student in laboratory courses. In the absence of satisfactory certificates, an examination may be required covering the whole or any necessary part of the subject. This application, with its supporting evidence, is submitted to the professors of the affected departments of this college, who decide what credits are recommended. Such recommendation must then be approved by the Committee on Advanced Standing and returned to the Dean, in duplicate. One copy is filed and the other returned to the student.

4. Any course or part of a course required by this college which has not been sufficiently covered by the previous work of the student, must be taken in a manner satisfactory to the professor in charge of the department affected.

DOCTORS OF MEDICINE FROM OTHER COLLEGES.—A graduate from another college of medicine may obtain a diploma from this college under the following conditions only:

1. He must comply, as outlined above, with the conditions for admission to this college, submit the required time and subject credits from the college from which he was graduated, and his diploma.

2. He must remain in residence at this college one college year, taking all such courses as are not covered by his subject credits and repeating such courses of the fourth year as the faculty may require. After these demands are satisfied he may elect such additional courses as he chooses.

3. The total of all courses taken in this college must not be less than that required of the fourth-year class.

4. He must pass examinations in all the courses in which he was found deficient and he must pass all the regular examinations of the fourth year; in addition he must conform to all other requirements for graduation exacted of the regular students of this college.

8. SIX-YEAR COMBINED LIBERAL ARTS AND MEDICAL PROGRAM

(Leading to the degrees B.S., M.D.)

Students who have completed the first two pre-medical years in the University of Cincinnati, *or in another college of recognized standing*, and received therein grades satisfying the requirements of the University of Cincinnati, may on the recommendation of the Medical Faculty receive the B.S. degree from the University of Cincinnati on the satisfactory completion of the curriculum of the first two medical years at the College of Medicine of the University of Cincinnati. This provision makes it possible for a student to receive both the Bachelor of Science degree and the Doctorate of Medicine in six years from the time of entering college.

The B.S. degree is granted at the end of the second medical year upon the joint recommendation of the faculties of the Colleges of Liberal Arts and Medicine, and the M.D. degree at the end of the fourth medical year, upon the recommendation of the faculty of the College of Medicine. Every candidate for the B.S. degree from the University of Cincinnati must obtain not less than 30 credits in this University.

These credits may, if the student so desires, be gained during his first and second years in the College of Medicine by work in the departments of anatomy, biochemistry, physiology, pharmacology, bacteriology, and pathology, recognized by the College of Liberal Arts.

FIRST YEAR

The courses prescribed in the pre-medical years of the College of Liberal Arts of the University of Cincinnati or for which an equivalent in credit must be brought from some other college of recognized standing are as follows:

CHEMISTRY—5 hours: *First semester*, Courses 1 and 2; *second semester*, Courses 3 and 4

ZOOLOGY—5 hours: Courses 1 and 2. In addition to this, students are recommended to take a summer course in biology at the Marine Biological Laboratory, Wood's Hole, Mass.

ENGLISH—3 hours: Course 1

GERMAN—3 hours: Course 1; or FRENCH—3 hours: Course 1

PHYSICAL EDUCATION—1 hour

A reading knowledge of either French or German is required, whether the language be studied in high school or college. A student without high school French or German, must elect German 1 or French 1 in his first year, and German 20 or French 2 in his second year. If he has had

two years of high school German, he must elect German 20 (scientific German) in his first year, and he may take either French 1 or an elective in his second year. If he has had two years of high school French, but no German, he must take French 2 in his first year, and German 1 or an elective in his second year. A student already having a reading knowledge of French or German (four years of either) is not required to take a foreign language in his pre-medical course, although he is strongly urged to do so. In case such a student takes no foreign languages, he must substitute, with the approval of his Adviser, an elective subject.

SECOND YEAR

CHEMISTRY—5 hours: *First semester*, Courses 5 and 6, which have been formed by abbreviating and combining courses formerly described as 5, 6, and 7. *Second semester*, organic chemistry, Courses 8 and 9

PHYSICS—5 hours: *First semester*, Courses 26 and 2; *second semester*, Courses 27 and 22

VERTEBRATE EMBRYOLOGY—4 hours, *second semester*; ZOOLOGY, Courses 19b and 20b

SCIENTIFIC GERMAN—2 hours (German 20). (See paragraph on French and German under "First Year.")

PHYSICAL EDUCATION—1 hour

ELECTIVE—4 hours, *first semester*

The third, fourth, fifth, and sixth years of this combined course are the regular years of the College of Medicine.

9. OHIO STATE MEDICAL BOARD EXAMINATION

Examinations for license to practice medicine and surgery in the state of Ohio are given twice each year by the State Medical Board. The dates are announced six months in advance, occurring usually in June and December, about the 10th of the month. Conditions for entrance to these examinations may be summed up as follows:

1. The candidate must have a preliminary training equivalent to graduation from a first-class high school having a four-year course.
2. The period of residence in a medical college must have been four calendar years (45 months).
3. He must present a diploma from a medical college recognized by the Ohio Board.
4. He must pay an examination fee of \$25 to the board, which will be returned to him in case he is not admitted to examination, but will not be returned if he is admitted or fails.

Licensure by the Ohio State Board carries with it the privilege of registering for practice in certain other states, *provided, in certain states,*

that a definite pre-medical course has been followed and the rules and regulations of the board are met. Details in regard to the conditions in any particular state may be learned by addressing the Secretary of the Ohio State Medical Board, State House, Columbus, Ohio.

Prospective medical students cannot study this question too closely. A diploma and work properly done in this college will, after proper state examination, admit the graduate to medical practice in all states and territories of the Union. This is not true of the diplomas from many other medical colleges which, while apparently offering identical courses, fail to satisfy the laws of various states either in the way of pre-medical requirements, hours, equipment, etc., available for teaching medicine, or in the matter of intern requirements. A diploma from such schools is not acceptable for a license to practice in the state involved. A student knowing or anticipating practice anywhere in the United States, Canada, or in some other foreign country, does well to inquire of the Board of Medical Examiners of the state in which he intends to locate whether the diploma for which he is working is going to be acceptable to that board.

10. UNDERGRADUATE DEGREES IN THE COLLEGE OF MEDICINE

BACHELOR OF ARTS OR BACHELOR OF SCIENCE.—Full credit is given towards the A.B. or B.S. degree by the Liberal Arts Faculty of the University of Cincinnati for courses taken in the fundamental medical sciences of anatomy, physiology, biochemistry, pathology, pharmacology, and bacteriology at the medical college to students registered in the University of Cincinnati, but not registered as medical students. The time devoted to such courses cannot, however, be counted for medical credit, and the student taking such courses when not registered as a medical student cannot under the law receive time credit for them, although he may receive subject credit for the courses, should he afterwards register as a medical student.

11. GRADUATE DEGREES

FIFTH OR CLINICAL YEAR.—Beginning with 1919, a fifth or clinical year is offered to graduates in medicine of this college who accept internships in hospitals approved by the faculty, work under a plan outlined by the faculty, and present at the end of the year an acceptable thesis embodying special study of some one disease. There are no fees required for this year. A degree of M.D. *cum laude* is bestowed on successful candidates at the regular commencement of the college. The candidate must, however, register with the Dean and be enrolled as a candidate for the *cum laude* degree at the beginning of his fifth year.

MASTER OF ARTS.—The degree of Master of Arts may be awarded to holders of the A.B. or B.S. degree, for one year of resident graduate work in which some subject of the fundamental sciences of medicine is studied. This work must be carried on in the laboratories of the University, in-

cluding the College of Medicine and the Hospital, and under the general direction of one of the professors of the University. The candidate must register as a student of the Graduate School of the University of Cincinnati. A thesis must be presented embodying original work.

DOCTOR OF PHILOSOPHY.—Students who have completed their undergraduate courses and received the degree of A.B. or B.S. from any accredited university or college may become candidates for the degree of Doctor of Philosophy. The general requirements for this degree are at least three full years of graduate work, under the direction of the graduate faculty of the University, the successful completion of some piece of research work, and such other minor work as may be required by the head of the department under whom the minor subject is taken. The student shall select in advance the department in which his major work is to be done. At least one year of the graduate work must have been in residence. The minor work shall consist of approximately one year of graduate work, and may be distributed between two departments, or confined to one, but these departments must be others than the department in which the major work is taken. A doctorate of philosophy may at present be taken either in physiology, bacteriology, biochemistry, or anatomy. Courses required to be taken by the candidate shall be determined by the head of the department chosen for the major subject.

ROYAL COLLEGES OF PHYSICIANS AND SURGEONS OF ENGLAND.—The College of Medicine has been officially notified by the Conjoint Examining Board of the Royal Colleges of Physicians and Surgeons of England that "it has been added to the list of schools recognized by this Board, whose graduates may be admitted to the final examination, on producing the required certificates of professional training and of having passed a recognized preliminary examination in general education."

12. HONORS

ALPHA OMEGA ALPHA.—A chapter of Alpha Omega Alpha, the honorary medical fraternity corresponding to Phi Beta Kappa, is established in the College of Medicine.

SCHOLARSHIPS AND FELLOWSHIPS.—There are available a limited number of undergraduate scholarships and of graduate fellowships in the various departments of the College of Medicine. Details regarding the conditions of award of these scholarships and fellowships may be obtained from the Dean.

THE PETER T. KILGOUR PRIZE.—The interest from a fund set aside in memory of Doctor Peter T. Kilgour is given as a prize each year by the faculty to that member of the graduating class who in work and character best expresses the ideals of medicine.

THE JESSE S. WYLER SCHOLARSHIP.—A prize established in memory of Jesse S. Wyler is awarded annually to a worthy student enrolled in the College of Medicine.

II. SUMMER COURSES

*1. PRE-MEDICAL COURSES

1919

2. MEDICAL COURSES

JUNE 16-AUGUST 16, 1919

ANATOMY

1. GROSS ANATOMY.—The course under this head is intended to cover in systematic fashion the work ordinarily completed in one of the regular courses in dissection.
2. TOPOGRAPHIC ANATOMY.—This course consists of a systematic review of the human body by means of cross-sections and special dissections from the museum collection. Emphasis is placed upon anatomic relations and their bearing on medicine and surgery.

Both the above courses consist of laboratory work supplemented by discussions and demonstrations, 9:00-12:00, M., Tu., W., Th., F. Tuition fee for either course, \$22.50; laboratory fee, \$12.50.

Dr. McClintic

Credit is given for the dissection of parts by the director; but the final examinations of any students who have not yet passed off the anatomy required in this college for the medical degree cover the entire body, including the topics studied during such summer work.

BIO-CHEMISTRY

A lecture and laboratory course dealing with the chemistry of the foods, of the human body, the reactions occurring therein, and the secretions. The equivalent of the bio-chemistry of the regular medical course. Six lecture and six laboratory periods a week for eight weeks. Lec., M., Tu., W., Th., F., S., 8:00-9:00; lab., M., Tu., W., Th., F., S., 9:00-12:00. Six credit hours. Tuition fee, \$30; breakage deposit, \$10.

Prerequisite: General and organic chemistry.

Dr. Tashiro

PHYSIOLOGY

1. A lecture and laboratory course dealing with the general physiology of the cell, the blood and the circulation, respiration, muscle-nerve, alimentation, absorption and secretion, and animal heat. One lecture and one laboratory period a day for a term of eight weeks. Lec., M., Tu., W., Th., F., S., 8:00-9:00; lab., M., Tu., W., Th., F., S., 9:00-11:30. Tuition fee, \$25.

Dr. Isaacs

*See page 131

III. COURSES OF INSTRUCTION BY DEPARTMENTS

1. GENERAL SCHEDULES OF STUDY

GENERAL PLAN OF INSTRUCTION AND MINIMUM HOURS REQUIRED.—
In the four sessions of the medical course, each consisting of 192 working days (two semesters), a minimum of 3,956 hours of work are required by this faculty. Effort is made to hold the required duties of the student at this minimum in order that he may spend his free time in the prosecution of elected studies or in special or research endeavor in some one of the departments of the college, with the advice and under the supervision of the Dean.

	Minimum American Medical Association Standard	Minimum University of Cincinnati College of Medicine
Anatomy	684	730
Physiology	288	288
Bio-Chemistry	180	180
Pathology, including Necropsies	288	330
Bacteriology, including Serology and Immunology..	126	160
Preventive Medicine and Public Health.....	54	54
Pharmacology, Materia Medica and Pharmacy....	216	240
General Medicine, including Laboratory Diagnosis..	540	560
Pediatrics	144	129
Psychiatry and Nervous Diseases	126	129
Dermatology and Syphilology.....	72	77
Medical Jurisprudence.....	18	18
Surgery	396	456
Orthopedic Surgery	72	82
Urology	36	75
Ophthalmology	54	72
Otology, Rhinology, and Laryngology.....	54	87
Roentgenology	36	40
*Obstetrics, including Obstetric Surgery.....	144	152
Gynecology	72	97
TOTALS	3,600	3,956

*Exclusive of time spent in attendance on cases

2. INDIVIDUAL SCHEDULES OF INSTRUCTION

1. ANATOMY

(The Francis Brunning Professorship of Anatomy)

PROFESSORS KNOWER, MALONE; ASSISTANT PROFESSOR DONALDSON

The courses in this department are given as closely related aspects of one subject. The microscopic and gross subdivisions are regarded as of equal value. Insistence upon their mutual interdependence aids the student in securing a correlated conception of the whole.

The facilities of the laboratories are exceptional for aiding undergraduate medical students in making a thoroughly practical examination of the body from every standpoint. The lectures treat of the more important fundamental relations and conceptions upon which practitioners should base their practical work. The students are led to develop initiative to the utmost; and yet their methods of work and analysis are daily criticized and trained by the staff in laboratory conferences, so that they will not only learn the facts before them but by the use of the same methods will be better able to add to their anatomical equipment during their future careers. Modern lines of research are indicated and attention is called to their value.

The schedule provides time for students who have been prevented from completing anatomy in the Freshman year to devote further study to the subject and take the final examination at the end of the first semester of the Sophomore year. The lectures are given by Dr. Knower on days which best meet the needs of the practical work. He also meets the students weekly throughout the year in the laboratory for individual conferences and directs the work. He participates in the organization and correlation of courses and laboratory activities.

1. EMBRYOLOGY.—Elementary vertebrate embryology is given in the Department of Zoology. (See page 158.)

This course is required of medical Freshmen, if not taken as pre-medical work. Pre-medical students of this University in the College of Liberal Arts must take embryology. Pre-medical students in other universities are strongly urged to take a similar laboratory course in vertebrate embryology *before entering the College of Medicine, in order to secure the best conditions for their anatomical work.*

2. HISTOLOGY AND ORGANOLGY.—This course emphasizes the view that the subject is merely a further microscopic analysis of the gross structure of the body. Functional and embryological relations are stressed. Freshman year, *first semester*, 2 lecture hours are stressed. Freshman year, *first semester*, 8 laboratory hours and 2 lecture hours weekly, 160 hours. M., Tu., W., Th., afternoons. Six credit hours are required of Freshmen. Dr. Malone
3. GROSS HUMAN ANATOMY.—Practical study of the human body in the dissecting rooms, accompanied by lectures and conferences. Osteology is included with the other aspects of the subject. The anatomy of parts is studied in close correlation with their function and embryological history. Freshman year, *first semester*, 2 lectures or demonstrations and 10 hours of laboratory weekly, 192 hours, 6 credit hours. *Second semester*, 2 lectures or demonstrations and 13 hours of laboratory weekly, 240 hours, 7 credit hours.
4. NEUROLOGICAL ANATOMY.—Laboratory exercises, lectures, and lantern demonstrations. (1) The gross microscopic structure and (2) the connection of different portions of the nervous system to form the mechanisms which underlie its various functions. Sophomore year, *first semester*, 1 lecture hour and 2 hours of laboratory work weekly, 48 hours, 2 credit hours. Dr. Malone

Laboratory conferences and lectures are conducted by Professor Knower as specified in the introduction above.

5. ADVANCED ANATOMY (ELECTIVE).—Advanced work and research can be arranged for with the professor.

Dr. Knower, Dr. Donaldson, *first semester*

Dr. Knower, Dr. Malone, *second semester*

6. ADVANCED NEUROLOGY (ELECTIVE).—Extensive series of the brain of man and the higher vertebrates are available, and of human embryos in various stages of development.

Any of the above courses are open to other than medical undergraduate or graduate students of the University who can show the necessary preliminary preparation and who desire credits in these subjects towards degrees other than the medical degree. Applicants should first consult the deans of the faculties supervising their work. Those interested in research or other special work in anatomy are requested to apply to the professor.

7. SURGICAL ANATOMY.—Lectures with demonstrations are given in this subject in the Junior year, by a member of the surgical staff. (See page 279.)

2. BIO-CHEMISTRY

PROFESSOR MATHEWS; ASSOCIATE PROFESSOR TASHIRO; INSTRUCTOR MILLS; FELLOW HOECK

The Department of Bio-Chemistry occupies large, well lighted and ventilated laboratories capable of accommodating comfortably one hundred men in undergraduate work. Each desk has gas, hot and cold water, electricity and a blast, and a good equipment of glassware. There are separate digestion, titration, and refrigerating rooms adjoining the main laboratory and there are private rooms for advanced work and for laboratories for members of the staff. The equipment throughout is new and up-to-date, and the conditions for work are unexcelled in the country. Immediate contact with the hospital permits the easy obtaining of pathological fluids for chemical examination.

It is the aim of the department not only to give a thorough grounding in physiological chemistry but to stimulate the spirit of investigation in its students and to cooperate with the hospital and other departments of the medical school in every way in improving the methods for diagnosing and curing disease and in elucidating its nature.

The courses offered in the department are both for medical and graduate students. Courses 1 and 2 are required of all medical students. The other courses may be elected by medical or graduate students.

1. BIO-CHEMISTRY.—A lecture and recitation course covering briefly the chemistry of the principal cell constituents, the carbohydrates, the lipins and proteins; foods; digestion; and urine in health and disease. Freshman year, *first semester*, 45 hours, M., W., 8:30-9:30; F., 11:30-12:30, 3 credit hours. (Repeated in summer by Dr. Tashiro.) Dr. Mathews
2. BIO-CHEMISTRY.—A laboratory course accompanying Course 1, on the same subjects. Freshman year, *first semester*, 135 hours, M., W., 9:30-12:30; F., 1:00-4:00, 3 credit hours. (Repeated in summer by Dr. Tashiro.) Dr. Tashiro, Mr. Mills, Mr. Hoeck
Courses 1 and 2 are required for graduation in medicine.
3. CHEMISTRY FOR NURSES.—See page 300. *First semester*. Dr. Mathews
4. ADVANCED BIO-CHEMISTRY.—A continuation course for medical and graduate students. Lectures and discussions of recent and important problems in bio-chemistry. *Second semester*, 15 hours, 1 credit hour. Dr. Mathews

5. **ADVANCED BIO-CHEMISTRY.**—A laboratory course for graduate and medical students who have had Courses 1 and 2 or their equivalent. Quantitative methods of biochemical analysis of urine, blood, and tissues. *Second semester*, 6 or 12 hours a week, 3 or 6 credit hours.
Drs. Mathews, Tashiro, Mr. Mills
6. **PHYSICO-CHEMICAL METHODS OF BIO-CHEMISTRY.**—With particular reference to certain clinical methods. Methods of hydrogen ion determinations in the blood, spinal fluid, and liquids of the body; osmotic pressures; conductivities; cataphoresis; etc. Conferences and laboratory, 6 to 12 hours a week, 3 to 6 credit hours.
Dr. Tashiro
7. **RESEARCH WORK IN BIO-CHEMISTRY.**—Three to 16 credit hours.
Drs. Mathews, Tashiro
8. **SEMINAR.**—The literature dealing with an important problem of biochemistry is assigned to participants in the seminar for report by them. Open to graduate and medical students. *Each semester*, 15 hours, 1 credit hour.
Departmental Staff

3. PHYSIOLOGY

(The Joseph Eichberg Chair of Physiology)

PROFESSOR FISCHER; ASSOCIATE PROFESSOR BAEHR; ASSISTANTS ISAACS, ECKSTEIN; FELLOW McLAUGHLIN

The work in physiology is done in the well equipped two and one half floors of the south wing of what is known as the medical college building. A lower half floor is given over to mammalian work; a middle floor is devoted to undergraduate laboratories and classrooms; the top floor to the needs of advanced workers and research. There is in addition a large two-story animal house with special operating rooms on the first floor and a second floor occupied by the technical assistant of the department.

Only such courses in physiology are given under the direction of this department as are required for graduation in medicine, and such as are necessary to meet the desires of graduate or special students in science and practitioners of medicine. Courses in physiology for general science students are offered by the Department of Zoology. (See page 158.)

1. **MEDICAL PHYSIOLOGY.**—The general physiology of the cell, the blood, circulation, respiration, muscle-nerve, and alimentation. A lecture and conference course. Freshman year, *second semester*, 75 hours, 4½ credit hours.
Dr. Fischer

2. **MEDICAL PHYSIOLOGY.**—A laboratory course paralleling Course 1 and illustrating the classical experiments upon which our present knowledge of the subject rests. Freshman year, *second semester*, 100 hours, 2 credit hours. Drs. Fischer, Baehr, Isaacs, Eckstein
3. **MEDICAL PHYSIOLOGY.**—The physiology of metabolism, animal heat, absorption, secretion, and the ductless glands. A lecture and conference course. Sophomore year, *first semester*, 75 hours, 4½ credit hours. Dr. Fischer
4. **MEDICAL PHYSIOLOGY.**—The physiology of the spinal cord, the brain, and the special senses. A lecture and conference course. Sophomore year, *first semester*, 45 hours, 3 credit hours. Dr. Baehr
5. **MEDICAL PHYSIOLOGY.**—A laboratory course in physiology, paralleling Courses 3 and 4. Sophomore year, *first semester*, 80 hours, 4 credit hours. Drs. Fischer, Baehr, Isaacs, Eckstein
6. **RESEARCH.**—Open to any qualified person after consultation with the head of the department.

4. PATHOLOGY

(The Mary M. Emery Chair of Pathology)

PROFESSOR *WOOLLEY; INSTRUCTOR KIELY; ASSISTANT J. STARK

Half the floor space of the pathologic institute is devoted to the undergraduate and graduate work in pathology. In the basement of the institute are found cold storage rooms for the dead, coroner's rooms, incubators, and preparation rooms. On the first floor are special laboratories for serology and clinical diagnosis by laboratory methods. The second floor is occupied by an autopsy amphitheater, administrative offices, and a students' laboratory for pathology. The top floor houses a museum and photographic rooms. Since the professor of pathology is the pathologist to the hospital, all its resources are available for teaching purposes.

The satisfactory completion of regular courses in histology, embryology, physiology, and bacteriology, is prerequisite for admission to any of the courses offered.

1. **POSTMORTEM TECHNIQUE.**—For Sophomore, Junior, and Senior students. Dr. Woolley
2. **GROSS MORBID ANATOMY.**—Sophomore year, *second semester*, 32 hours, Tu., 2:00-4:00. Dr. Woolley
3. **GENERAL AND SPECIAL PATHOLOGY.**—Sophomore year, 168 hours, M., W., F., 8:30-12:00. Drs. Woolley, J. Stark

*Resigued.

4. **SPECIAL TOPICS IN PATHOLOGY.**—Sophomore year. Drs. Cofield, Kiely
5. **CLINICAL AND PATHOLOGICAL CONFERENCES.**—See Department of Medicine, page 276. Senior year, S., 11:00-12:00. Dr. Woolley
6. **Advanced work and research** for qualified persons who desire to do special work under the direction of the head of the department.

5. BACTERIOLOGY AND HYGIENE

PROFESSOR WHERRY; INSTRUCTORS BERGHAUSEN, HERMANIES,
ROGERS; FELLOW BELL; ASSISTANT LAMB

The work is done on two floors of the pathologic institute. One of these is devoted to a students' laboratory and special research rooms, and a second (top floor) to special operating rooms and quarters for animals. As the central bacteriological laboratory of the hospital, the department has access for teaching purposes to everything dealing with the problem of communicable diseases which comes up in the hospital. As far as possible the medical aspects of bacteriology and animal parasitology are taught by making the student study material obtained from the wards and post-mortem rooms of the hospital.

- 1 and 2. **GENERAL BACTERIOLOGY AND THE ANIMAL PARASITES OF MAN.**—The production of disease and the relation of bacteriology to personal and public hygiene. The more important protozoa, helminths, and insects concerned in the cause and transmission of disease are studied. Required of all medical students. *First semester*, 174 hours, 5 credit hours. Drs. Wherry, Hermanies
3. **ADVANCED BACTERIOLOGY.**—Open to qualified students who wish to work on special aspects of bacteriology. Hours to be arranged with the head of the department.
4. **RESEARCH WORK.**—Open to specially qualified students. Hours to be arranged with the head of the department.
5. **LECTURES ON HYGIENE.**—The personal and the municipal hygiene of transmissible diseases. *Second semester*, 16 hours, 1 credit hour. Dr. Peters
6. **PRACTICAL HYGIENE.**—Cooperative course with the Board of Health. During the *first semester* of the Junior year students are assigned to active service in the Board of Health. Dr. Peters and Assistants
7. **SERUM DIAGNOSIS AND THERAPEUTICS.**—A lecture and conference course with practical demonstrations in immunology and immuno-diagnostics, including vaccines, sera, etc. Eight hours, $\frac{1}{2}$ credit hour. Dr. Berghausen

6. PHARMACOLOGY, MATERIA MEDICA, AND THERAPEUTICS

PROFESSOR JACKSON; ASSOCIATE PROFESSOR MASON; ASSISTANT PROFESSOR SOUTHWORTH; INSTRUCTORS TUECHTER, SILBER

The Department of Pharmacology occupies the second and third floors of the central portion of the medical college building. In addition to this space the department also has a suite of four large animal rooms (including a special room for aseptic operations) and a small storage room on the fourth floor. On the roof is a large runway for animals and a small isolation room. Altogether the department possesses some twenty-seven rooms, including a variety of private laboratories, offices, store rooms, etc. On the second floor is a shop splendidly equipped with machine tools for both wood and metal work. In addition there are power grinding machines and an excellent assortment of hand tools. A new dark room has just been built. The class laboratories and lecture rooms are well equipped with new and thoroughly modern apparatus, and new equipment, drugs, etc., are being constantly added to the department.

1. PHARMACOLOGY.—Lectures, stereopticon illustrations, recitations, and demonstrations covering the general field of pharmacology and materia medica. (See also Course 6). Sophomore year, *second semester*, 48 hours, 3 credit hours. Drs. Jackson, Mason
2. PHARMACOLOGY, LABORATORY COURSE.—This course is given synchronously and is carefully correlated with Course 1. Sophomore year, *second semester*, 96 hours, 3 credit hours. Drs. Jackson, Mason
5. THERAPEUTICS.—A lecture course dealing with the general principles involved in the treatment of disease. Junior year, *first and second semesters*, 32 hours, 2 credit hours. Dr. Tuechter
6. HISTORICAL LECTURES.—A series of lectures given in direct connection with Course 1. Sophomore year, *second semester*, 8 hours. Dr. Jackson
7. RESEARCH.—The facilities and equipment of the department are open to those properly qualified to carry on original investigations after consultation with the head of the department.
9. NON-DRUG THERAPY.—A lecture course covering the general principles of treatment by baths, climatic changes, etc. Junior year, *first and second semesters*, 32 hours, 2 credit hours. Dr. Southworth

7. MEDICINE

(The Frederick Forchheimer Chair of Medicine)

PROFESSORS *MORRIS, FACKLER, BROWN, FRIEDLANDER, FALLER; ASSOCIATE PROFESSORS ZUEBLIN, BETTMANN, HEYN, DUNHAM, C. DECOURCY, BRADY, ERICKSON; ASSISTANT PROFESSORS RAMSEY, BERGHAUSEN; INSTRUCTORS KELLY, PLACE, FORD, OSMOND, KENNEDY, SPELMAN, STIX, BENJAMIN, WEISS, SALTZMAN, FREYHOF, GATH, NORTON, CONN, TUCKER, S. OLIVER, GERINGER

The work in medicine is carried on in the lecture rooms of the college building, in the dispensary, and in the wards, laboratories, and amphitheatres of the hospital.

1. PHYSICAL DIAGNOSIS.—Lectures, demonstrations and practical exercises in inspection, palpation, percussion, and auscultation of the normal subject. Sophomore year, *second semester*, 32 hours, 2 credit hours. Drs. Benjamin, Weiss
2. PHYSICAL DIAGNOSIS.—The methods learned in Course 1 are applied to the study of disease. Junior year, *first semester*, 32 hours, 2 credit hours. Drs. Benjamin, Weiss
3. PHYSICAL DIAGNOSIS.—The Junior class spends one day per week for one semester at the Cincinnati Tuberculosis Hospital, the time being devoted to physical diagnosis, x-ray findings, discussion of treatment and social aspects of tuberculosis. Junior year, *second semester*, 96 hours. Drs. Zueblin, Dunham, Gath
4. RECITATIONS IN GENERAL MEDICINE. — A recitation course upon assigned subjects. Junior year, *first and second semesters*, 32 hours, 2 credit hours. Dr. Stix
5. CLINICAL PATHOLOGY.—A practical study of the methods of chemical and microscopic examination of the blood, urine, gastric contents, feces, sputa, and puncture fluids. Laboratory exercises preceded by lectures in which the occurrence and diagnostic significance of the abnormal are discussed and the methods of examination explained. Junior year, *first and second semesters*, 96 hours, 3 credit hours. Drs. Heyn, Ervin
6. LABORATORY CLINIC.—Patients from the hospital wards are demonstrated to the class. Special emphasis is placed upon the relation of the laboratory findings to diagnosis, prognosis, and treatment. Junior year, *second semester*, 16 hours, 1 credit hour. Dr. _____

*Absent on leave.

7. LECTURES ON DIETETICS.—Junior year, *first semester*, 16 hours, 1 credit hour.
Dr. Bettmann

8. DISPENSARY CLINICS IN MEDICINE.—Every Junior spends two hours daily throughout half a year in the medical clinic, where he has practical experience and instruction in history taking, physical examination, diagnosis, and treatment. 128 hours.
Drs. Kennedy, Spelman, Stix, Benjamin, Weiss, Saltzman, Freyhof

9. HOSPITAL WARD CLASSES.—Each Senior spends four hours daily for ten weeks in the medical wards of the hospital, serving as clinical clerk. Part of his time is spent in making rounds with the staff officers under whose direction he is working. 170 hours.
Drs. Fackler, Brown, Friedlander, Heyn

10. CLINICAL-PATHOLOGICAL CONFERENCE.—The clinical findings and diagnosis of medical cases on which autopsies have been performed are presented and the organs then demonstrated. Senior year, *first and second semesters*, 32 hours, 2 credit hours.
Dr. ———

11. DISEASES OF THE STOMACH, INTESTINE, AND LIVER.—Lectures on diagnosis and treatment. Senior year, *second semester*, 16 hours, 1 credit hour.
Dr. Bettmann

12. DISEASES OF THE HEART.—Lectures on diagnosis and treatment. Senior year, *first semester*, 16 hours, 1 credit hour. Dr. Ramsey

13. DISEASES OF THE RESPIRATORY TRACT AND THE DUCTLESS GLANDS.—A recitation and conference course. Senior year, *first semester*, 16 hours, 1 credit hour.
Dr. ———

14. LECTURES ON DISEASES OF THE KIDNEYS AND CONSTITUTIONAL DISORDERS.—Senior year, *first semester*, 16 hours, 1 credit hour.
Dr. Brown

15. INFECTION, IMMUNITY, AND SPECIFIC THERAPY.—Lectures and demonstrations. Senior year, *second semester*, 16 hours, 1 credit hour.
Dr. Berghausen

16. ADVANCED WORK IN CLINICAL PATHOLOGY.—An elective course open to those qualified after consultation with the head of the department.

8. PEDIATRICS

PROFESSOR RACHFORD; ASSOCIATE PROFESSOR LAMB; ASSISTANT PROFESSORS WAGNER, GREENEBAUM, BENTLEY, BELL, DREYFOOS; INSTRUCTOR ERVIN; ASSISTANTS RASETTI, FOGEL, OKRENT, CRAWFORD, WESTLAKE, WHERRY, RENNEKER, BLACKFORD

The work in pediatrics is conducted in the lecture rooms of the college building, in the wards and amphitheatres of the hospital (including the wards for contagious diseases), and in the dispensary.

The children's dispensary is a large one, the attendance being about 10,000 a year. Students study the patients who present themselves not only in the dispensary, but have the opportunity of following them to their homes. This gives opportunity of presenting not only the medical but the social aspect of disease. This work is conducted by the staff of the Department of Pediatrics with the assistance of a large corps of specially trained nurses.

1. DISEASES OF CHILDREN.—Lectures on diseases of the gastro-intestinal tract and of disorders of nutrition, genito-urinary diseases, functional diseases of the nervous system, and tuberculosis. Senior year, *first and second semesters*, 32 hours, 2 credit hours.
Dr. Rachford
2. DISEASES OF CHILDREN.—Diseases of the heart, of the blood, and of the ductless glands. Senior year, *second semester*, 16 hours, 1 credit hour.
Dr. Lamb
3. DISPENSARY CLINICS.—Every Senior may spend here two hours daily for six weeks. Thirty-six are required, 1 credit hour.
Drs. Rachford, Lamb, Wagner, Greenebaum, Bentley, Bell, Dreyfoos, Fogel, Okrent, Westlake, Crawford, Wherry, Renneker, Blackford, Rasetti
4. HOSPITAL WARD CLASSES.—Every Senior is required to spend two hours a week, for ten weeks, in the pediatric wards of the hospital under the direction of the staff. Twenty hours, $\frac{1}{2}$ credit hour.
Drs. Rachford, Lamb, Wagner, Greenebaum, Bentley, Bell, Dreyfoos
5. THE ACUTE INFECTIOUS DISEASES OF CHILDREN.—Lectures, ward rounds, and clinics. Junior year, *first semester*, 16 hours, 1 credit hour.
Dr. Bell

9. PSYCHIATRY AND NERVOUS DISEASES

PROFESSORS HOPPE, WOLFSTEIN, BREESE; ASSOCIATE PROFESSOR INGRAM; ASSISTANT PROFESSOR BAEHR; INSTRUCTORS KIELY, SHINKLE, NORTH, WILLIAMS; ASSISTANTS GOLDSMITH, RATLIFF

1. PSYCHIATRY.—Lectures on mental diseases.
Dr. Wolfstein

2. PSYCHIATRIC CLINICS.—Bedside and conference study of mental diseases in the wards of the hospital and the Longview State Hospital for the Insane.

Drs. Zenner, Hoppe, Wolfstein, Baehr, Ingram, North

3. NERVOUS DISEASES.—Lectures and demonstrations of functional and organic disease of the brain, spinal cord, and peripheral nerves.

Dr. Hoppe

4. NEUROLOGIC AND PSYCHIATRIC CLINICS.—Every Senior devotes a specified number of two-hour periods to bedside and conference study of neurologic cases in the hospital.

Drs. Hoppe, Wolfstein, Ingram, Kiely, Shinkle

5. DISPENSARY CLINICS IN NEUROLOGY.

Drs. Hoppe, Ingram, Kiely, Shinkle

6. DISPENSARY CLINICS IN PSYCHIATRY.

Drs. Wolfstein, North

10. DERMATOLOGY AND SYPHILOLOGY

ACTING PROFESSOR TAUBER; INSTRUCTORS MILLER, *SCHOLTZ, BROEMAN; ASSISTANTS CLAASSEN, SHIELDS, DuCASSE

The work required in dermatology and syphilology for graduation in medicine is given in the wards and dispensary of the hospital. Senior students have direct access to patients. Since the available number of cases is very great, opportunities for instruction are broad and possibilities for elective work large.

1. LECTURES IN DERMATOLOGY.—The commoner diseases of the skin, including syphilis, are covered. Senior year, *first and second semesters*, 1 hour a week, 2 credit hours.

Dr. Tauber

2. CLINICS IN DERMATOLOGY.—Senior year, 16 hours, $\frac{1}{2}$ credit hour.

Drs. Tauber, Miller, Broeman, Shields, DuCasse

3. CLINICS IN VENEREAL DISEASES.—The student is supervised in diagnosis and treatment of patients presenting themselves at the night clinic. Elective for Juniors and Seniors. Credit hours determined by amount of work done.

Drs. Tauber, Miller, DuCasse

11. SURGERY

PROFESSORS RANSOHOFF, OLIVER, C. CALDWELL, FEE, CARSON, HILLER; ASSOCIATE PROFESSORS HINES, PALMER, RHODES, LANGDALE, J. LOUIS RANSOHOFF, HAINES; INSTRUCTORS PIRRUNG, J. CALDWELL, SOUTHER, SCHRIVER, COPOCK, ZIELONKA, CAROTHERS; ASSISTANTS ABBOTT, SCHNEIDER, FEID, S. SMITH, SHANK

*Resigned.

Surgery during the Junior and Senior years is taught both clinically and didactically, being conducted in the wards of the hospital and the classrooms of the college building. Practical work in surgery during the Junior year is conducted in the dispensary, where two hours daily are devoted by the student to examination and treatment of patients, throughout the semesters and under the care of competent clinicians. During the fourth year the teaching consists of daily bedside attendance from 8:30 to 11:30 each morning. In addition, large operative clinics are held.

Such operations are especially selected and demonstrated as are of interest to the fourth-year students by reason of their having studied the cases thoroughly before operation. During such operations the students are frequently called upon to administer anesthetics, under proper supervision.

1. **SURGICAL AND APPLIED ANATOMY.**—Lectures illustrated by dissections of and demonstrations upon the cadaver. 32 hours.
Dr. C. E. Caldwell
2. **PRINCIPLES OF SURGERY.**—Lectures and recitations covering wounds, infections, diseases of bones, fractures, dislocations, diseases of blood vessels, lymphatics, muscles, tendons and nerves, and tumors. Aseptic and antiseptic principles. 32 hours.
Dr. Hiller
3. **SURGICAL LABORATORY.**—Physiologic surgery, shock, anesthesia, hemorrhage, experimental infections; surgical technique, minor operations. 32 hours.
Dr. Hiller
4. **REGIONAL SURGERY.**—Informal lectures covering the head, spine, back, and chest. The causes and effects of disease, methods of diagnosis, and methods of treatment are discussed. Dr. Ransohoff
5. **REGIONAL SURGERY.**—Informal lecture covering the abdomen, rectum, and anus. Dr. Ransohoff
6. **REGIONAL SURGERY.**—Informal lectures covering the thyroid and mammary glands. Dr. Oliver
7. **FRACTURES AND DISLOCATIONS.**—Lectures and demonstrations. 32 hours. Dr. Pirrung

12. ORTHOPEDIC SURGERY

PROFESSOR FREIBERG; ASSOCIATE PROFESSOR COFIELD; INSTRUCTORS MADDOX, KLEIN, BETZNER

1. **ORTHOPEDIC SURGERY.**—Lectures and conferences on important chapters in orthopedic surgery, with special reference to etiology and surgical pathology. Senior year, *first and second semesters*, 32 hours, 2 credit hours. Dr. Freiberg

2. **ORTHOPEDIC DISPENSARY CLINICS.**—Seniors are assigned for definite periods. Credit hours according to length of assignments.

Drs. Maddox, Cofield, Klein

3. **HOSPITAL BEDSIDE CLASSES.**—The abundant material of the hospital is used for one clinical exercise per week, which the Senior class attends in divisions for definite periods.

Drs. Freiberg, Maddox, Cofield

13. OBSTETRICS

PROFESSORS GILLESPIE, PORTER; ASSOCIATE PROFESSORS WOODWARD, TATE; INSTRUCTORS GRAF, RATTERMAN

1. The anatomy and physiology of pregnancy, management of labor, and the pathology of pregnancy. Dr. Woodward
2. Mechanics of labor and operative obstetrics, with complications of pregnancy and the puerperium. Dr. Gillespie
3. Clinical lectures at stated times in the amphitheater of the hospital. Drs. Porter, Gillespie, Tate

4. **OBSTETRIC CLINICS.**—Obstetric clinics are held in the wards of the hospital and in the homes of patients who make application to the out-patient department. The hospital work is attended by small groups of Seniors, and cases of exceptional interest may be readily utilized because of the proximity of the school to the hospital. The out-patient work is attended by Junior students, one student being present at each case.

The out-patient work is in charge of the physicians of the Maternity Society of Cincinnati, to whom all out-patients are referred, and these, together with those applying to the Maternity Society, make altogether about 300 cases per annum. The teaching is strictly personal and practical, each patient cared for at the time of labor and in convalescence by a visiting nurse of the Maternity Society or of the Catholic Visitation Society.

14. GYNECOLOGY

PROFESSORS BONIFIELD, WITHROW, S. STARK, MILLER; ASSISTANT PROFESSOR ROWE; INSTRUCTORS HALL, STEINHARTER, GAINES, STEMLER, *PODESTA, TOPMOELLER, J. STARK

The hospital and dispensary treat yearly great numbers of gynecologic patients, from which a proper selection of types is made for the purposes of medical teaching. The attempt is made throughout of grounding the student or general practitioner in those principles of practice which are of greatest importance to him in his everyday work.

*Resigned.

1. LECTURES ON GYNECOLOGY.—Etiology and diagnosis of malformations, displacements, and deviations of the uterus; disorders of menstruation; inflammatory diseases of the female genitalia. 16 hours, 1 credit hour. Dr. Sigmar Stark
2. LECTURES ON GYNECOLOGY.—Lectures on benign and malignant tumors and the chronic inflammations of the female pelvic organs; tubal pregnancy. 16 hours, 1 credit hour. Dr. Bonifield
3. DISPENSARY CLINICS.—Each Senior spends two hours daily for a specified number of days in the gynecologic clinic of the dispensary, where he receives practical instruction and experience in the examination, diagnosis, and treatment of ambulatory cases. Drs. Miller, Gaines, Stemler, Podesta, Topmoeller
4. HOSPITAL WARD CLASSES.—Each Senior spends a specified number of days in the gynecologic wards of the hospital serving as clinical clerk and as spectator at operations. He thus obtains experience in the methods of caring for the bedridden patients. Drs. Bonifield, S. Stark, Rowe, Hall, Steinharter
5. CLINICAL LECTURES.—Clinical lectures for practitioners of medicine and advanced students on selected topics are delivered at stated times in the amphitheater of the hospital.

15. GENITO-URINARY SURGERY

PROFESSORS SMITH, MCKIM; INSTRUCTORS WEBB, STALEY, J. DECOURCY, KOCH

1. DIDACTIC LECTURES.—Special emphasis on diagnosis and treatment. Case histories, gross specimens, and lantern slides are used. Senior year, *first semester*, 2 hours a week, 2 credit hours. Dr. Smith
2. HOSPITAL CLINICS.—Bedside and amphitheater study of patients in the hospital. Senior year, *first and second semesters*, 2 hours a week, $\frac{1}{4}$ to 1 credit hour. Drs. Smith, McKim
3. DISPENSARY.—Practical study and care of out-patients by students under the direction of the staff. Senior year, *first and second semesters*, M., W., F., 4:00-6:00, $\frac{1}{4}$ to 1 credit hour. Drs. Webb, Staley, J. DeCourcy, Koch

16. OPHTHALMOLOGY

PROFESSORS SATTLER, RAY; ASSISTANT PROFESSORS AYRES, CROSS; INSTRUCTORS HOFLING, SIEGEL, HEFFNER, C. KING, KELLER; ASSISTANTS SWING, REID

The aim of instruction in ophthalmology is to afford the student ample opportunity to study the essentials of the pathology of the more important ocular lesions, and to impress him with the importance of a practical knowledge of ophthalmology and its close relationship to internal medicine. The course is divided into didactic and clinical teaching, the first semester being devoted to recitations and lectures, the second to clinical work in the dispensary and the hospital, under the personal direction of members of the staff.

The effort is made to meet the needs also of advanced students who, through predilection and proficiency, desire to prepare for postgraduate work in ophthalmology.

1. DISPENSARY CLINICS.—Each Senior is required to spend 15 two-hour periods in attendance at the ophthalmologic clinic of the dispensary, where he receives practical instruction and experience in dealing with the commoner affections of the eyes. 1 credit hour.
Drs. Ray, Ayres, Cross, Swing
2. HOSPITAL WARD CLASSES.—Each Senior spends a specified number of two-hour periods in ward examinations of ophthalmic cases in the hospital.
Drs. Sattler, Ray, Ayres
3. CLINICAL LECTURES.—The commoner diseases of the eye. Dr. Ray

17. OTOLGY

PROFESSORS *HOLMES, MURPHY; INSTRUCTORS TANGEMAN, JONES

Instruction in this department is carried on in the lecture rooms of the college building, the dispensary, and the wards and operating pavilion of the hospital. Special effort is made to teach every student to recognize the commoner affections of the ear, more particularly the acuter pathologic changes which require prompt treatment or surgical interference.

- 1 and 2. LECTURES ON THE EAR.—Anatomy and physiology of hearing; etiology, pathology, diagnosis, and treatment of the commoner diseases of the ear. Junior year, *second semester*, 16 hours, 1 credit hour.
Dr. Murphy

*Deceased.

3. DISPENSARY AND WARD CLINICS.—Each student spends a minimum of five two-hour periods a week for five weeks in the otological clinic of the dispensary and one two-hour period a week for ten weeks in the hospital. Senior year, 70 hours, 2 credit hours.

Drs. Murphy, Tangeman, Jones

18. LARYNGOLOGY

PROFESSOR IGLAUER; INSTRUCTORS MCCARTHY, E. KING, ALLGAIER, GOODYEAR, LYLE, J. ASHER CALDWELL; ASSISTANT LIGHT

The aim of instruction in laryngology and rhinology is to familiarize the student with the commoner diseases of the nose and throat and to point out the important relationship of these diseases to the problems of internal medicine and pediatrics. The student is taught personally to acquire a working knowledge of the use of the instruments ordinarily employed in this branch of surgery.

1. LARYNGOLOGY AND RHINOLOGY.—Lectures on diseases of the nose, pharynx, and larynx illustrated by wet and dry specimens, models, and charts and supplemented by demonstrations of operative technique. Practical intubation on the cadaver and lectures on bronchoscopy and esophagoscopy. Senior year, *first semester*, 16 hours, 1 credit hour. Dr. Iglauer
2. DISPENSARY CLINICS.—Each Senior spends a specified number of two hour periods in the laryngologic clinic of the dispensary, where he receives practical experience in the diagnosis and treatment of patients. Minor operations are performed in the clinic.
Drs. McCarthy, King, Light
3. WARD CLASSES.—Ward classes for Seniors are held in the hospital. The students follow the patients from the wards to the operating rooms.
Drs. Iglauer, McCarthy, King
4. CLINICAL LECTURES.—In the hospital. Drs. Iglauer, McCarthy

19. RADIOLOGY

PROFESSOR LANGE; ASSISTANT PROFESSOR DOUGHTY; *INSTRUCTOR GOOSMAN; ASSISTANT BADER

Instruction in radiology is didactic in only small part. The diagnostic courses consist of lantern slide demonstrations and plate-reading clinics. Effort is made to demonstrate the fundamental phases of the work by laboratory and clinical methods. To this end the extensive and well

*Resigned.

equipped x-ray laboratory of the hospital is utilized, which contains an indexed collection of x-ray plates and lantern slides for teaching purposes. A large and well ventilated fluoroscopic room provides facilities for fluoroscopic demonstrations to the class in sections. Abundant clinical material is drawn from the wards of the hospital and from the dispensary.

1. RADIOLOGY.—Physics of the x-ray; principles of radiographic and therapeutic technique; x-ray diagnosis of head and thorax. *Second semester*, 12 hours, $\frac{3}{4}$ credit hour. Dr. Lange
2. RADIOLOGY.—X-ray diagnosis of bones, joints, and abdomen; practical fluoroscopic work in gastro-intestinal lesions and in the localization of foreign bodies. *Second semester*, 10 hours, $\frac{5}{8}$ credit hour. Dr. Doughty
3. RADIOLOGY.—Biological effects of the x-ray; indications for technique, and results of x-ray therapy. *Second semester*, 10 hours, $\frac{5}{8}$ credit hour. Dr. Goosman

20. MEDICAL JURISPRUDENCE

PROFESSOR OTIS FISK

1. LECTURES ON MEDICAL JURISPRUDENCE.—The branches of law of importance medically; illustrations from court cases and court decisions. 8 hours, $\frac{1}{2}$ credit hour. Professor Fisk

21. MEDICAL ART

INSTRUCTOR HOMAN

1. Students fitted for such work may be allowed instruction in the application of art to medicine after consultation and arrangement with the head of the department. Mr. Homan

SCHOOL OF NURSING AND HEALTH

(For faculty list and administrative officers, see pages 38-42)

GENERAL STATEMENT

FOUNDATION AND PURPOSE

The present School of Nursing and Health, under the title of the Cincinnati Training School for Nurses, was established by a group of Cincinnati women on January 1, 1889. In 1896 this training school was taken over by the city and made an integral part of the hospital, the title being changed to the Cincinnati Hospital Training School for Nurses. In November, 1914, it was reorganized as the School of Nursing and Health of the Cincinnati General Hospital.

In June, 1916, the Board of Trustees of the University of Cincinnati, upon the recommendation of the Mayor of the city, the Director of the Department of Public Safety, the Dean and faculty of the College of Medicine, and the President of the University, made the School of Nursing and Health a department in the College of Medicine. This step was taken in recognition of the pressing need for more adequate training for nurses, and of the obligation of the city departments concerned to make through cooperation the highest use of the facilities of the hospital and of the University in the interest of the health and education of the community which they serve.

By special arrangement of the two departments of the city government operating the University of Cincinnati and the Cincinnati General Hospital, the hospital provides a laboratory for the practice of nursing and cooperative assistance to the student nurse, while the University in its College of Medicine and other colleges provides the scientific instruction essential to the pursuance of the study and practice of nursing, thus making possible the preparation of women for the nursing profession as private, institutional, and public health nurses.

EQUIPMENT

The College of Medicine—of which the School of Nursing and Health has become a part—is located on twelve acres of land adjoining the Cincinnati General Hospital. Lectures, demonstrations, and laboratory work in chemistry, anatomy, physiology, bacteriology, pathology, pharmacology and therapeutics, medicine, surgery, and their various branches are given

in the laboratories of the College of Medicine. Professors of the College of Medicine form the staffs of the Cincinnati General Hospital and the Tuberculosis Sanatorium, with the result that specialists direct the clinical instruction in medicine as applied to nursing. The Cincinnati General Hospital affords exceptional advantages for the education of nurses. The hospital is new and is one of the most modern, carefully designed, and completely equipped hospitals in the country. It was built at a cost of about \$5,000,000. It is built on the pavilion plan and embraces twenty-four large buildings, all connected by overground and underground corridors. The contagious group consists of a separate unit of seven pavilions similarly connected with each other. The hospital occupies a high and healthful location in a quiet and attractive part of the city. The equipment throughout is of a most modern and up-to-date character, a maximum of sunlight and air being provided by the style of building adopted. It has a capacity of 850 beds, and offers opportunities for thorough experience in medical, surgical, gynecological, obstetrical, pediatric, ophthalmological, otological, laryngological, neurological, psychopathic, and orthopedic nursing.

Instruction in nursing and its various branches and in public health nursing is given by instructors in the School of Nursing and Health, while instruction in foods and nutrition, social sciences, etc., is available in the Department of Home Economics of the College for Teachers and in the College of Liberal Arts of the University.

The psychopathic and neurological services offer excellent opportunity for preparation in the field of mental hygiene. The well-equipped College of Medicine Dispensary, on the hospital grounds, with its social service and visiting nurse departments, serves as a laboratory for the student nurse and offers practical experience in social service and public health work. The College of Medicine and the School of Nursing and Health have cooperative agreements with the Visiting Nurse Association and the Cincinnati Board of Health and its school nursing and anti-tuberculosis nursing staffs, which bring the student into immediate contact with public health problems.

The spacious and beautifully appointed nurses' residence commands an extensive view of the surrounding country. It is equipped with class and demonstration rooms, reception rooms, and roof garden. The library is one of the best equipped nursing libraries in the country. It contains some two thousand carefully selected volumes and a wide range of current periodicals.

ADMISSION

Students are admitted to the School of Nursing and Health (a) as candidates for the degree of Bachelor of Science and the diploma of Graduate Nurse, (b) as candidates for the diploma of Graduate Nurse, or (c) as special students.

CANDIDATES FOR THE DEGREE AND DIPLOMA

In order to be admitted to the School of Nursing and Health as a candidate for the degree of Bachelor of Science and the diploma of Graduate Nurse, the student is expected to satisfy the regular college entrance requirements, to complete a pre-nursing or post-nursing course of two academic years in the College of Liberal Arts consisting of sixty-four college credit hours, and to complete three calendar years—thirty-four months—in the School of Nursing and Health.

REQUIREMENTS FOR ADMISSION

A student must offer for admission fifteen units. These units may be secured by entrance examinations or by certificate from an accredited secondary school from which the student has graduated with a grade in each academic subject of at least seventy per cent.

The fifteen units must be distributed in the following manner:

ENGLISH—Three units

MATHEMATICS—One unit in algebra and one unit in plane geometry

HISTORY—One unit

LANGUAGE—Three units, from the five languages: Latin, Greek, French, German, Spanish. Two units must be in the same language.

In addition to these specific requirements the candidate must offer three units which may be in English, mathematics, foreign language, history, physics, chemistry, zoology, physiology, botany, physical geography, or astronomy, under the regulations as to the maximum and minimum of the work to be completed in each subject described in the current announcement of the College of Liberal Arts.

The remaining three units shall constitute a "free margin;" i. e., the University will accept for admission any three units which the secondary schools themselves credit towards graduation and which are given in conformity to the standards adopted by the North Central Association of Colleges and Secondary Schools. No fraction of a unit other than one half shall be recognized.

ADMISSION ON CERTIFICATE FROM ACCREDITED SCHOOLS

All certificates presented for admission must be signed by the principal of the school from which the student comes and must specify the work actually done, the time devoted to each subject, and the grade received in each course. Blank forms will be furnished upon application to the

Director of Admissions, University of Cincinnati, Cincinnati, Ohio, or to the Director of the School of Nursing and Health, the Cincinnati General Hospital. These certificates, properly made out, should be sent to the Director of Admissions, University of Cincinnati, Cincinnati, Ohio, as soon as possible after graduation, and at least five days before the first day of registration. Upon receipt of the certificate, the Director of Admissions will pass upon the application, and, if it is satisfactory, will send a card of admission, which should be presented to the Registrar at the opening of the session. If the certificate is not satisfactory, the candidate will be informed, so that she may prepare herself for the entrance examination.

A candidate from an accredited school who is not a graduate of such school, will not be admitted upon certificate at all, but must enter by examination.

CANDIDATES FOR A DIPLOMA

In order to become a candidate for the diploma of Graduate Nurse, the student must (1) be over eighteen and under thirty-five years of age, (2) satisfy the school physician as to physical fitness, and (3) fulfill the requirements for admission to the College of Liberal Arts of the University of Cincinnati. A candidate who has taken the three-year diploma course may receive, after the satisfactory completion of the two-year pre-nursing course, or the equivalent, the B.S. degree.

ADVANCED STANDING

Students who present educational qualifications in advance of high school graduation are given credit as follows:

1. **THEORETICAL WORK.**—In subjects fully equivalent to those represented in the curriculum of the School of Nursing and Health.

2. **TIME.**—For a four-years' course in an approved college, credit in nursing and health subjects, one to eight months; for less than four years, reduction in time, according to the required subjects covered.

The amount of credit given for previous work in other schools of nursing depends upon (a) the standard of the school, and (b) the nature of the medical and nursing services and the amount and character of instruction, but it may not exceed two years.

PROBATION

After their admission, undergraduate diploma students are on probation until the end of the first term, in order that the Director of the school may determine whether or not they are qualified to pursue the work with profit. The Director may at her own discretion terminate at any time the connection of a pupil with the school.

SPECIAL STUDENTS

Classes and cooperative nursing experience are open to graduate nurses and students from affiliated schools of nursing who wish instruction and experience along special lines. Elementary classes are also available for university and high school students, provided they are at least seventeen years of age and can give satisfactory evidence that they are able to carry on the work.

SPECIAL COURSE IN PUBLIC HEALTH NURSING

Classes and cooperative field work in public health nursing are open to graduate nurses. The completion of the course requires at least two terms.

All special students who, after entering, become candidates for a degree or diploma, receive credit for all courses completed satisfactorily, but before becoming candidates for a degree or diploma they must fulfill the college entrance requirements and all the instructional and clinical requirements of the course. Special students are amenable to the same regulations in matters of class work, examinations, and discipline as regular students.

SCHOLARSHIPS

AMERICAN RED CROSS SCHOLARSHIPS.—In 1918 the Cincinnati Chapter of the American Red Cross offered ten scholarships of \$300 each to students in the seven Cincinnati schools of nursing for the years 1918, 1919, and 1920. In the first semester of 1918-1919 six of these scholarships were granted to students in the School of Nursing and Health of the University of Cincinnati. In 1920 ten additional scholarships of \$300 each have been made available.

In 1919-1920 the Cincinnati Chapter of the American Red Cross granted two scholarships of \$550 each to students in the special course in public health nursing.

COLONIAL DAMES WAR SCHOLARSHIPS.—The Society of Colonial Dames of America in the State of Ohio offers three scholarships in nursing to be given to three students of merit in the School of Nursing and Health of the University of Cincinnati, as designated by the Director of the School of Nursing and Health in conjunction with the president of this society and the chairman of the Colonial Dames' Committee on War Scholarships. These scholarships are for use during the years 1918, 1919, 1920. They are to be of \$235 for each student who finishes the course in two years and four months, and of \$300 for each student who completes

the course in three years. The payments shall be made as follows: \$50 upon the successful completion of the probationary period, and the balance in equal amounts at the close of each semester of the students' nursing course.

CINCINNATI WOMAN'S CLUB SCHOLARSHIP.—In 1918 the Cincinnati Woman's Club offered a war scholarship of \$300 for the years 1918, 1919, and 1920.

THE MRS. D. B. MEACHAM SCHOLARSHIP.—In 1918 Mrs. D. B. Meacham offered a war scholarship of \$300 for the years 1918, 1919, and 1920.

THE THERESE SCHEUER SCHOLARSHIP.—In 1919 Mrs. Samuel and Mrs. David I. Wolfstein offered a scholarship of \$300 in memory of their mother, for the years 1919, 1920, and 1921.

THE LOUISE H. POLLAK SCHOLARSHIP.—In 1919 Mrs. Julian Pollak offered a scholarship of \$300 for the years 1919, 1920, and 1921.

For the fellowships, scholarships, and prizes of the various colleges, consult their several Announcements.

REGISTRATION

Registration in 1919 for the combined liberal arts and nursing course began on Thursday, September 18, and closed on Saturday, September 20.

For the diploma course registration took place in 1919 from Monday, June 2, to Monday, June 16, and from Wednesday, October 1, to Friday, October 10; in 1920 on Saturday, January 31, and from Monday, May 31, to Monday, June 14.

No person is admitted to any University course after the beginning of class work, unless a good and sufficient excuse for not entering at the opening of the semester be presented to the professor in charge; and in no event is any person permitted to enter after the close of the second week of class work. In accordance with this regulation, no person was admitted to the work of the first semester of 1919-1920 in the College of Liberal Arts after October 4, 1919. This regulation does not apply to students entering the cooperative nursing courses.

NURSE REGISTRATION

OHIO NURSES' EXAMINING COMMITTEE STATE MEDICAL BOARD

Examinations for license to practice nursing in the state of Ohio are given twice a year by the Nurses' Examining Committee of the State Medical Board. The dates will be announced in advance. Details in regard to the conditions may be learned by addressing the Secretary, Nurses' Examining Committee, State Medical Board, State House, Columbus, Ohio.

GRADUATION

DEGREE AND DIPLOMA

Degrees are not conferred *in absentia*, except by special permission from the President.

The degree of Bachelor of Science and the diploma of Graduate Nurse are conferred by the University upon the following conditions:

(1) The completion of the college entrance requirements and the completion of the pre-nursing or post-nursing course of two years in the College of Liberal Arts.

(2) The completion of the diploma course of study as outlined (see below), consisting of the seventy-two hours described in the plan which includes nursing practice.

DIPLOMA

A diploma of Graduate Nurse is given to those approved candidates who have fulfilled the college entrance requirements and have completed the seventy-two credit hours described in the plan which includes nursing practice.

CERTIFICATE

A certificate is awarded by the School of Nursing and Health to special students who are graduate nurses, upon the completion of a duly approved group of selected subjects that include nursing practice or field work in public health nursing.

REGULAR PROGRAM IN NURSING

In accordance with the reorganization of the professional course of study in the School of Nursing and Health, the year is divided into three terms, and the pupil nurse is freed from ward duty for two terms—one in the first year and one in the second—for full academic work. Throughout the entire course lectures fundamental to nursing and public health are given coordinately with the practice of nursing.

The work includes (1) courses of study in the School of Nursing and Health and in other departments of the University, consisting of fifty credit hours, and (2) courses of practice in the wards, operating rooms, dispensary, and diet kitchen of the hospital, consisting of not less than twenty-two credit hours.

A credit hour is one recitation hour a week carried through a term of fifteen weeks. For one month of nursing practice under supervision is given the corresponding value of one credit hour.

FIRST YEAR

During the probation term of the first year (four months) the student is instructed in the ethics of nursing, elementary nursing, elementary anatomy, foods, and personal and hospital hygiene. The coordinate hospital work begins with bed making and simple bedside care, so that the student may acquire the elementary principles of nursing and hygiene. This introduction to the problem of nursing is intended to motivate the theoretical courses that follow.

During the second term (four months) of the first year, the student is not held responsible for practical work in the wards beyond a maximum of 17 hours a week, but is given the time for the pursuance of the following subjects fundamental to the work of nursing: chemistry, anatomy, physiology, pharmacy, and medical and surgical nursing.

At the end of the eighth month in the school, the student returns to the practice work in the hospital wards and, as her knowledge and ability warrant, acts as assistant in difficult treatments, proceeding gradually to the care of patients who are seriously ill.

SECOND YEAR

During the first term the practice work in the wards of the hospital is continued. During the second term the student is again relieved of practical responsibility for the care of patients beyond a maximum of seventeen hours a week, and is given four months for the study of the following subjects: bacteriology and hygiene, psychology, social science, pharmacology, therapeutics, and nutrition as applied to nursing. During the remainder of the second year opportunity is given the student for definite

practical experience in nursing and in preparing special diets for patients. Lectures and demonstrations in massage, orthopedic nursing, and children's nursing are also given in this term.

THIRD YEAR

Further nursing practice with coordinating lectures in the nursing of obstetrics, communicable diseases, nervous and mental diseases, skin and venereal diseases, eye, ear, nose, and throat diseases, and application of preventive medicine in nursing.

During the last year, eight weeks of experience in the College of Medicine Dispensary is required for each student. Nursing 13 is coordinate with this practice. An additional eight weeks in public health nursing, or in the management of a ward, or in private patient nursing, or in selected practice is elective. Classes coordinating with this practice work are Nursing 14 and 15, 16, 17 and 18, Bacteriology and Hygiene 3 and 5, and Nursing and Health Education 1, 2, and 3. From these courses electives are to be made. Throughout the entire course of training, the student nurse is encouraged to make the social application to all the problems of nursing.

All undergraduate practical work receives close supervision. Examinations are held at the close of each term.

FIVE-YEAR COMBINED LIBERAL ARTS AND NURSING PROGRAM

The program which is required in the two pre-nursing or post-nursing years in the College of Liberal Arts of the five-year combined liberal arts and professional course which leads to the degree of Bachelor of Science as well as to the diploma of Graduate Nurse is as follows:

*PRE-NURSING PROGRAM IN ARTS

Leading to the B.S. degree

REQUIRED:		FIRST YEAR
Chemistry 1, 2, 3, 4	10 hours	
English 1	6 hours	
Zoology 1, 2	10 hours	
Hygiene	2 hours	
Physical Education	2 periods a week	
TOTAL		28 hours

*For description of courses, see College of Liberal Arts section. The program may also be taken after the professional course in nursing.

SECOND YEAR

ELECTIVES from the following group of subjects: psychology, economics, social science, political science, history, modern language, chemistry, philosophy, English, physics, mathematics, zoology, and botany.....34 hours

REQUIRED:

Hygiene 2 hours
 Physical Education.....2 periods a week
 TOTAL 36 hours

*SPECIAL EIGHT MONTHS' PROGRAM IN PUBLIC HEALTH NURSING

(For graduate nurses who are candidates for a certificate)

†Bacteriology and Hygiene 2, 3, 5.....4 credit hours
 †Psychology3 credit hours
 Elementary Sociology 1.....4 credit hours
 †Nutrition 4.....3 credit hours
 Application of Preventive Medicine and Nursing 11.....1 credit hour
 Public Health Nursing 13, 14 and 15, 16.....6 credit hours
 Cooperative Nursing Practice 12T and 12U4 credit hours
 Nursing and Health Education 1 and 4..2 credit hours
 †Invalid Occupation 171 credit hour
 †Journal Club 181 credit hour

*A total of twenty-four credit hours is required.

†Elective

COURSES OF INSTRUCTION

1919-1920

NURSING

- 1b. **ELEMENTARY HOME NURSING AND FIRST AID.**—A course for University students in methods of health promotion and disease prevention, and the principles and technique of simple nursing procedures and first aid including special problems in the care of infants and children. Lectures, demonstrations, and laboratory practice. *Second semester*, 60 hours. F., 2:00-5:00. Two credit hours. Miss Kandel

Prerequisite: Elementary course in anatomy and physiology

2. **ELEMENTARY PRINCIPLES OF NURSING.**—Lectures and demonstrations in the economy of hospital equipment and supply, and in the clinical technique of nursing. *First semester and summer term*, 30 lecture hours. M., Th., 11:00-12:00. Two credit hours. Coordinate with Nursing Practice 12D (one credit hour) daily for sixteen weeks. Miss Foster

3. **MEDICAL NURSING.**—Lectures, demonstrations, and clinics presenting the principles and technique in the treatment of medical diseases, and in the work of a nurse in physical examinations, observation of symptoms, etc. *First and second semesters*, 45 hours. Tu., Th., 10:00-11:30. Three credit hours. Coordinate with Nursing Practice 12E (two credit hours). Miss Kandel, Miss Weil

- 3+. **MEDICAL NURSING.**—Lectures, demonstrations, and clinics supplementary to those of Nursing 3 and planned with special reference to the needs of students affiliating from other hospital schools of nursing. *First and second semesters*, 15 hours. W., 3:00-4:00. One credit hour. Coordinate with Nursing 12E.

Miss Kandel, Miss Weil

4. **SURGICAL NURSING.**—Lectures, demonstrations, and clinics dealing with the principles and technique in the nursing care and treatment of surgical cases, including bandaging. *First and second semesters*, 30 hours. W., 1:00-2:00; S., 2:00-3:00. Two credit hours. Coordinate with Nursing Practice 12F (two credit hours).

Miss Kandel, Miss Northrup

5. **NURSING IN ORTHOPEDIC, GENITO-URINARY, AND GENERAL SURGERY, AND GYNECOLOGY.**—Lectures. *First semester*, 15 hours. M., 5:00-6:00. One credit hour. Coordinate with Nursing Practice 12F, 12G, and 12M.

Drs. Freiberg, Ransohoff, Oliver, Smith, Stark, Palmer

6. **MECHANO-THERAPY.**—Lectures, demonstrations, and laboratory practice, giving the history, physiological effect, and therapeutic application of massage. *First and second semesters*, 25 hours. M., 2:00-4:00. One credit hour. Coordinate with Nursing Practice 12G (one credit hour). Miss Fessenden
7. **PEDIATRIC NURSING.**—Lectures and demonstrations dealing with the nursing care and feeding of infants and children. *First and second semesters*, 15 hours. F., 5:00-6:00. One credit hour. Coordinate with Nursing Practice 12H (two credit hours). Drs. Rachford, Wagner, Miss Weil
8. **SPECIAL DISEASES.**—A series of lectures on the treatment of eye, ear, nose, throat, skin, and venereal diseases. *First and second semesters*, 15 hours. M., 4:00-5:00. One credit hour. Coordinate with Nursing Practice 12P (one credit hour). Drs. Iglauer, Murphy, Sattler, Tauber, Miss Isaminger
9. **OBSTETRICS.**—Lectures on prenatal and postnatal care, including obstetrical emergencies. *First and second semesters*, 15 hours. F., 4:00-5:00. One credit hour. Coordinate with Nursing Practice 12O (two credit hours). Drs. Gillespie, Tate, Miss Northrup
10. **CONTAGIOUS DISEASES.**—Lectures in nursing and preventive care of measles, diphtheria, scarlet fever, pertussis, etc. *First and second semesters*, 15 hours. S., 4:00-5:00. One credit hour. Coordinate with Nursing Practice 12L (two credit hours). Dr. Bell, Miss Schenck
11. **PREVENTIVE MEDICINE AND NURSING.**—Considers the prevention of infant mortality, tuberculosis, and the more prevalent communicable diseases, etc. *Second semester*, 15 hours. W., 4:00-5:00. One credit hour. Drs. Weiss, Isaacs, Miss Kandel

12. COOPERATIVE NURSING PRACTICE.—		Months	Credit Hours
D.	Introduction to General Nursing Care.....	4	1
E.	Medical Wards.....	3	3
F.	Surgical Wards.....	2	2
G.	Orthopedic Ward and Gymnasium.....	1	1
H.	Pediatric Wards.....	2	2
J.	Admitting Pavilion and Social Service.....	½	½
K.	Operating Pavilion.....	1½	1½
L.	Contagious Wards.....	2	2
M.	Gynecological Wards.....	1	1
N.	Psychopathic and Neurological Wards.....	2	2
O.	Obstetrical Wards.....	2	2
P.	Ear, Eye, Nose, and Throat Wards.....	1	1

	Months	Credit Hours
*R. Private Patient Experience.....	2	2
†S. Administration of Wards.....	2	2
T. University Medical College Dispensary.....	2	2
‡U. Field Work in Public Health Nursing.....	2	2
V. Hospital Diet and Milk Laboratory.....	1	1
††W. Skin and Social Hygiene.....	1	1
††EE to PP. Selected Practice	2	2

13. INTRODUCTION TO PUBLIC HEALTH NURSING.—History and development of public health nursing abroad and in the United States. Presentation of problems to be met by the nurses in general visiting nursing, tuberculosis nursing, infant welfare, school nursing, industrial nursing, rural nursing, and medical social service. *First and second semesters*, 15 hours. Tu., 2:00-3:00. One credit hour. Miss Roberts

- 14-15. PRINCIPLES AND PROCEDURES IN PUBLIC HEALTH NURSING.—Lectures and conferences on modern social problems in their relation to public health nursing. Organization and administration of public health nursing in all its branches, including problems of finance, publicity, records, and statistics. Treatment of special social problems met by the nurse in the home, based on a careful analysis and study of actual case records. Technique of bedside nursing, teaching of hygiene in the home, and the relation of the public health nurse to civic and philanthropic organizations. *First and second semesters and summer term*, 60 hours. Tu., W., 3:00-4:00; F., 3:00-5:00. Four credit hours.

Coordinate with Nursing Practice 12T and 12U (four credits) which consist of field work, under supervision in the various branches of public health nursing given in cooperation with the Cincinnati Visiting Nurse Association, the University Medical College Dispensary, the City Board of Health, and the Associated Charities.

Miss Logan, Miss Roberts, Miss Cocke, Mrs. Stokes

16. PUBLIC HEALTH NURSING.—Lectures on the methods and administration of special branches of public health nursing, prenatal work, infant welfare, school nursing, playground work, and the juvenile court, mental hygiene, tuberculosis nursing, rural nursing, and industrial nursing. *Second semester and summer term*, 15 hours. F., 2:00-3:00. One credit hour.

Miss Logan, Miss Cocke, Miss Kuck, and others

Prerequisite: Nursing 13, 14, 15

*For those electing private duty

†For those electing institutional work

‡For those electing public health nursing

††For those electing further training in Nursing 12E to 12P

17. **INVALID OCCUPATION.**—Occupational work in institutions and homes, forms of handiwork, etc., most suitable to various illnesses and to differing capabilities, and games and play most appropriate for ill and convalescent children. Lectures and laboratory practice. *First and second semesters*, 35 hours. Th., 2:00-4:00. One credit hour. Miss Gegner
18. **JOURNAL CLUB.**—Open to Seniors and special students who are graduate nurses. Conferences and reports on nursing problems. *Second semester*, weekly. Tu., 7:30-8:30. One credit. Miss Logan and Assistants
19. **HISTORY AND ETHICS OF NURSING.**—Historical development of nursing, its rise and growth, its ethical standards and professional ideals. *First semester and summer term*, 15 hours. S., 10:00-11:00. One credit hour. Miss Logan
20. **PSYCHIATRIC AND NEUROLOGICAL NURSING.**—Lectures on mental disorders; their common forms, usual symptoms, and nursing care. Epilepsy; its manifestations, immediate and general care. Neurasthenia and hysteria; their recognition and distinctive features, methods of nursing, and the principles and practice of rest cure. Organic diseases of brain, spinal cord, and peripheral nerves. *First and second semesters*, 15 hours. W., 4:00-5:00. One credit hour. Coordinate with Nursing Practice 12N (two credit hours).
Drs. Hoppe, Wolfstein, Ingram, Kiely, Miss Isaminger
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PSYCHOLOGY

1. **ELEMENTARY PSYCHOLOGY.**—Analysis of important processes of mind, their biological antecedents and their practical function. *First and second semesters*. Forty-five hours. M., Tu., Th., 11:30-12:30. Dr. Talbert
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NURSING AND HEALTH EDUCATION

1. **TEACHING OF HEALTH PRINCIPLES.**—Intended for the public health nurse. Outlines and suggests methods of teaching hygiene, etc., for school, community, and home groups. *Second semester*, 15 hours. Th., 1:00-2:00. One credit hour. Miss Pfefferkorn
4. **METHODS OF SOCIAL CASE WORK.**—Open to students in their third year. *Second semester*, 15 hours. F., 3:00-4:00. One credit hour. Miss Sellew

SOCIAL SCIENCE

1. **ELEMENTARY SOCIOLOGY.**—The origin, composition, evolution, and functions of society. Special attention given to the study of existing social organizations and to social legislation and the larger problems connected therewith. *First and second semesters*, sixty hours. Tu., Th., 4:00-5:00. Four credit hours.

*Mr. Van Matre, Mr. Conrad

CHEMISTRY

3. **THE ELEMENTS OF CHEMISTRY.**—A course designed to meet the requirements of the diploma students. A study of the properties and methods of preparation of some of the elements, and of the fundamental laws of chemistry. Some of the simple organic compounds, their methods of preparation and their reactions. Simple experiments in the chemistry of digestion as well as on the composition of urine. *First and second semesters*, 135 hours. M., W., 8:30-12:30; F., 8:30-9:30. Five credit hours.
Dr. Mathews, Mr. Mills, Miss Kandel

ANATOMY AND PHYSIOLOGY

1. **ELEMENTARY ANATOMY AND PHYSIOLOGY.**—Introduces the student to some of the biological aspects of the human mechanism and lays the foundations for further study in anatomy, physiology, and hygiene. Lectures and simple laboratory experiments. *First semester and summer term*, 15 hours. S., 11:00-12:00. No credit.
Miss Foster
- 2-3. **ANATOMY AND PHYSIOLOGY.**—Lectures, demonstrations, and laboratory work dealing with the gross and microscopic structure and development of the human body and the application of the general principles of physiology. *First and second semesters*, 135 hours. Tu., Th., 1:30-5:30; F., 2:00-3:00. Five credit hours. Drs. Knower, Malone, Fischer, Baehr, Miss Pfefferkorn

FOODS AND NUTRITION

6. ELEMENTS OF COOKERY.—Considers the elementary principles of cookery, with an introduction to the planning and serving of meals. Designed for students who have had an inadequate preparatory training in this subject. This course or its equivalent is prerequisite to Course 4. *First semester and summer term*, 60 hours. M., 1:00-5:00; W., 1:00-2:00. Two credit hours. *Miss Swope
4. DIETETICS AND NUTRITION.—This course deals with the food requirement of the individual in health and disease, throughout infancy, childhood, adolescence, adult life, and old age, in the light of the chemistry and physiology of digestion, the energy value of food, and the nutritive properties of the various food stuffs. Typical dietaries are planned for each period, with careful consideration of the problems of satisfying diverse requirements due to economic and social conditions. 75 hours. Three credits. *First and second semesters*. Tu., 9:30-11:30; Th., 8:30-11:30. Coordinate with Nursing Practice V (one credit hour). Miss Cape
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MATERIA MEDICA

1. SOLUTIONS AND INTRODUCTION TO THE STUDY OF DRUGS.—Study of weights and measures, calculation and practice in making solutions, methods of handling and preserving drugs, and the preparation of medicines for administration. *First and second semesters*, 54 hours. Tu., 11:00-12:00; W., 2:00-3:00. Two credit hours. Miss Pfefferkorn
2. PHARMACOLOGY AND THERAPEUTICS.—An elementary study of the physiological action of drugs, with demonstrations, including a study of the symptoms and treatment of poisoning by medicinal agents. *First and second semesters*, 30 hours. M., 5:00-6:00; W., 2:00-3:00. Two credit hours. Miss Kandel
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BACTERIOLOGY AND HYGIENE

1. PERSONAL AND HOSPITAL HYGIENE.—Elementary course in the theory and practice of health promotion and hospital sanitation. Lectures and observation study in the hospital. *First semester and summer term*, 15 hours. W., 11:00-12:00. One credit hour. Miss Foster

*Resigned

2. BACTERIOLOGY.—Lectures, demonstrations, and laboratory work, covering the general aspects of bacteriology, with special emphasis on the relation of bacteria and protozoa to the production of disease. Principles of asepsis and disinfection will be gone into fully. *First and second semesters*, 60 hours. M., 9:30-10:30; W., F., 10:00-12:00. Two credit hours.
Dr. Wherry, Miss Pfefferkorn
 3. BACTERIOLOGY AND HYGIENE.—A more advanced course consisting of class conferences, collateral reading, and the preparation of papers on special aspects of bacteriology and hygiene. *First and second semesters*, 15 hours. Th., 4:00-5:00. One credit hour.
Dr. Wherry, Miss Pfefferkorn
 5. COMMUNITY AND INDUSTRIAL HYGIENE.—Lectures on municipal hygiene, transmissible diseases, and industrial hygiene. *Second semester*, 15 hours. Tu., 3:00-4:00. One credit hour.
Dr. McCord and Assistants
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PATHOLOGY

1. ELEMENTARY PATHOLOGY.—Historical development; regressive tissue changes, inflammation and repair; tuberculosis, syphilis, etc.; tumors. Lectures and demonstrations. *First semester*, Tu., 3:00-4:00; *second semester*, Th., 4:00-5:00. Fifteen hours. One credit hour.
Dr. Wherry and Assistants

COLLEGE OF LAW

(Cincinnati Law School)

(For board of trustees and list of officers of instruction and administration, see pages 43, 44.)

REQUIREMENTS FOR ADMISSION

REGULAR STUDENTS

Candidates for the degree of Bachelor of Laws must be graduates of an approved four-year high school and have taken at least one year's work in a college of liberal arts and sciences at some approved university. Before registering they must forward their credentials showing the above credits.

SPECIAL AND IRREGULAR STUDENTS

Special students are those who are not candidates for a degree. Irregular students are those who attend only part of the lectures and recitations of the College of Law. Those who desire to attend only at part of the lectures may do so upon giving satisfactory evidence of their fitness for such course of study.

ADVANCED STANDING

Students are given credit for work done in approved law schools upon presentation of a certificate showing that they have taken such work and successfully passed examination therein in said law schools.

SCHOLARSHIPS AND PRIZES

The faculty have established a scholarship to be awarded to a student, selected by the faculty, who has completed the course of study prescribed for the second-year class.

Mr. Richard H. Wald will give each year, so long as he lives, a scholarship to be awarded to the student making the best record in the subject of Contracts.

A prize of \$75 is awarded to the student having the highest average of credits during the three years' course.

A prize of \$50 is awarded to the student having the next highest average of credits during the three years' course.

By his will, the late Hon. John R. Sayler left to the college a fund, out of the proceeds of which a prize of \$50 for the best essay on the subject of Bills and Notes, and another prize of \$50 for the best essay on the subject of Evidence are to be awarded each year.

The late Commander George Wood Logan, U. S. N., gave a fund of about \$4,000 to establish a scholarship to be known as "The Thomas A. Logan Scholarship," in memory of his father, Thomas A. Logan, a graduate of the class of 1851, and for many years a member of the Cincinnati bar. The income arising from this gift is to be applied to the tuition, including the use of the necessary books, of students selected under regulations prescribed by the faculty.

EXAMINATIONS

The annual examinations of each class are held in May. The right to take examinations, as well as the privilege of continuing one's membership in the school at any time, is conditioned upon regular attendance at the exercises of the school, and conduct satisfactory to the faculty.

No student shall be regarded as having finally completed the work of the year unless he shall have obtained a general average in all courses of 70 percent, and a grade of 60 percent in each of them.

Each student in order to pass from a lower to a higher class or to be graduated must not only pass the examinations satisfactorily, but must also satisfy the faculty by his work in the classroom that he should so pass from a lower to a higher class or be graduated.

CONDITIONS

If a student falls below 60 percent in not more than four courses and still has a general average of more than 70 percent, he may take another examination in those subjects wherein he has failed.

No one can be admitted as a regular student to the third-year class who has any conditions standing against him.

CONVOCATION

A general meeting of all the students is held in the study hall on the second Thursday of each month.

Announcements of general interest to the school are made, and matters affecting the school in general are brought to the attention of the students at this meeting.

REGULAR PROGRAM OF THE COURSE IN LAW

The degree of Bachelor of Laws is given to students who have completed the prescribed course of three years, have passed satisfactorily the final examinations, and are otherwise qualified. Degrees are granted only to regular students.

Regular students must take all subjects prescribed and are admitted to the following year's class only upon passing the required examinations.

No certificate of credits is given to any student who has not completed the full three-year course, unless the student is entering another law school in the Association of American Law Schools, in which case the certificate is sent directly to the school which he expects to enter.

PRE-LEGAL PROGRAM IN THE McMICKEN COLLEGE OF LIBERAL ARTS

Students in the College of Liberal Arts of the University of Cincinnati as a preliminary to entering the College of Law should take the following courses:

REQUIRED

English Composition	3 credit hours, 2 semesters
English Constitutional History	3 credit hours, 1 semester
American Constitutional History	3 credit hours, 1 semester
{ Algebra and Trigonometry	3 credit hours, 2 semesters
{ or	
{ Physics	5 credit hours, 2 semesters
Hygiene	1 credit hour, 2 semesters
Gymnasium	2 exercises a week, 2 semesters

ELECTIVE—4 or 5 hours if mathematics be taken; 2 or 3 hours if physics be taken

Latin	3 credit hours, 2 semesters
Economics	3 credit hours, 2 semesters
Economic History	2 credit hours, 2 semesters
American Government	3 credit hours, 2 semesters
Sociology	2 credit hours, 2 semesters
Survey of English Literature	2 credit hours, 2 semesters
Shakespeare	3 credit hours, 2 semesters
Argumentation (on permission)	2 credit hours, 1 semester
Public Address (on permission)	2 credit hours, 1 semester

SIX-YEAR COMBINED LIBERAL ARTS AND LEGAL PROGRAM

A student who has received credit for the work of the first two years in the College of Liberal Arts may, in the third year, elect from four to six hours a semester of the lectures of the first year of the law course as a substitute for studies in the College of Liberal Arts, and in the following year he may, in the same way, take the remainder of the thirteen hours of the first year's course in the College of Law. Upon passing the required examinations he is given the degree of A.B. Or, if he so desire, he may elect, in his Senior year, the entire thirteen hours of the first-year law course, in which event he is given the degree of A.B. upon passing the prescribed examinations at the College of Law.

COURSES OF INSTRUCTION

1919-1920

(Subject and Case Book Used)

	HOURS A WEEK
FIRST YEAR	
Contracts (<i>Williston</i>)	2
Criminal Law (<i>Beale, Ed. 3</i>)	2
Property (<i>Gray, Vols. 1 and 3</i>)	2
Torts (<i>Pound's Ed. of Ames and Smith</i>)	2
Civil Procedure (<i>Scott</i>)	1
Persons (<i>Smith</i>)	1
Damages (<i>Beale, Ed. 2</i>)	1
Legal Bibliography	
Practice Court	
Public Speaking	1
Legal Ethics (<i>Costigan</i>)	
SECOND YEAR	
Agency (<i>Wambaugh</i>)	2
Property (<i>Gray, Vols. 2 and 4</i>)	2
Sales, 1st term (<i>Williston</i>)	2
Insurance, 2d term (<i>Wambaugh</i>)	2
Suretyship (<i>Stearn</i>)	1
Equity (<i>Ames, 2 Vols.</i>)	2
Evidence (<i>Thayer</i>)	2
Bankruptcy (<i>Williston</i>)	}
Federal Procedure (<i>Wheaton</i>)	
Quasi-Contracts (<i>Woodruff</i>)	1
Practice Court	
THIRD YEAR	
Constitutional Law (<i>Hall</i>)	2
Corporations (<i>Richards</i>)	2
Partnership, 1st term (<i>Burdick</i>)	2
Trusts (<i>Ames</i>)	3
†Mortgages (<i>Wyman</i>)	3
‡Municipal Corporations (<i>Beale</i>)	3
{Common Carriers (<i>Beale</i>); Public Service Companies (<i>Wyman</i>);	
{Interstate Commerce (<i>Frankfurter</i>)	2
Bills and Notes (<i>Smith and Moore</i>)	2
Code Pleading (<i>Whittaker's Ohio Code and Selected Cases</i>)	1
Conflict of Laws (<i>Lorenzen</i>)	1
Practice Court	
Review	

NOTE.—This schedule is subject to changes by additions and withdrawals and otherwise as the college determines.

†Mortgages is to follow Trusts.

‡Municipal Corporations is to follow Mortgages.

METHOD OF STUDY

The case method is used exclusively and a thorough review course is given for students in the third-year class.

PRACTICE COURT

Practice court is held once a week for each class. Cases may be taken, on error or appeal, to the practice court of the next higher class, or be re-argued before members of the faculty.

REGISTRATION BY CORRESPONDENCE

Correspondence in advance of registration is suggested. Applicants for admission as regular students of the College of Law must forward in advance their credentials showing graduation from an approved four-year high school and at least one year's work in a college of liberal arts and sciences at some approved university.

For catalogue and further information, address

THE SECRETARY TO THE FACULTY

COLLEGE OF LAW

CLIFTON AVENUE, WEST OF OHIO

CINCINNATI, OHIO

FELLOWSHIPS, SCHOLARSHIPS, AND PRIZES

Awarded in June, 1919

GRADUATE SCHOOL

The *D. A. R Fellowship in American History* for 1919-1920 was awarded to HERBERT T. LEYLAND.

The *Hanna Fellowship in Physics* for 1919-1920 was awarded to HAROLD F. RICHARDS.

The ten *Baldwin Fellowships* were filled during the session 1919-1920 by the following persons:

WILLIAM H. BELL, Bacteriology
JACOB FELD, Civil Engineering
JOHN F. HEAVNER, Economics
GEORGE W. HOECK, Bio-Chemistry
*ANNE SUSAN McLAUGHLIN (MRS. ROY), Education
WALTER SOLLER, Mechanical Engineering
ELSA MAE TYNDALL, English
ALMA MARIE WUEST, Mathematics

A *Graduate Fellowship in Economics* was awarded for the session 1919-1920 to GEORGE E. MARTIN.

The *E. I. Du Pont de Nemours Fellowship* was awarded for the session 1919-1920 to JOSEPH LAWRENCE DONNELLY.

The *Armstrong-Hunter Scholarship* was awarded for the session 1918-1919 to LAURA BELLE McNUTT.

University Scholarships for 1919-1920 were awarded to the following students:

†WILLIAMETTA BAKER, Latin
JOSEPH LAWRENCE DONNELLY, Chemistry
ADALINE H. ELLIOTT, English
MARIANNE A. GAU, Mathematics
WALTER F. HAEHNLE, Romance Languages
LULU HOUSER, Education
HYMAN IOLA, Philosophy
JOHN H. KIGER, English
ELIZABETH ZIMMERMAN, History

*First semester only

†Second semester only

COLLEGE OF LIBERAL ARTS

The *Comegys Scholarship*, of \$50, was given to ERWIN TSCHUDI.

The *College of Law Scholarship* was awarded to WILLIAM MYERS.

First Honors in Freshman English for the year 1918-1919 were awarded to RUTH H. CLIPPINGER and DAVID S. NATHAN; *Second Honors* to JEAN B. MAY; and *Third Honors* to FLORENCE GAHR.

The following students, who took part in inter-collegiate debate within the year 1918-1919, were awarded the *University Debating Keys*:

STEWART S. COOPER	HERBERT T. LEYLAND
J. DEWEY SHIELDS	WALTER F. HAEHNLE
MILTON SCHMIDT	J. EBERSOLE CRAWFORD

Certificates in Debating also were given to these six, and to HELENE HEINSHEIMER and GEORGE P. SMITH, who have served as alternates.

The *Alumna! Dramatic Society* chose from the Senior class:

WILLIAM F. FULDNER	HELEN CAMPBELL
HENRY G. SCHMIDT	LILLIAN MEEDS
LILYMAE WATTS	WALTER HAEHNLE

In order to provide a nucleus for a strong alumna! association, the student body of the University, acting through the Student Council, selects annually from the Senior class those who have been most active in college affairs during their four years at the University. The members of this *Cincinnatus Society* chosen by the Student Council from the class of 1919 are as follows:

DOROTHY CONE	MARTHA ANDERSON
FLORENCE STUART	HOWARD STAPLETON
MARGARET GREEN	WALTER HAEHNLE
CATHERINE SNOW	FRANCIS WRIGHT
MARY STEINER	EDGAR POWERS
CHARLOTTE LANDIS	ROBERT DORSEY
CECILLE STARK	HERBERT JONES
LILLIAN MEEDS	WILLIAM MYERS
ANNE KNIGHT	

The *Henry Hochstetter Prize*, of \$40, was awarded to WALLACE W. BOONE for his thesis entitled *Simplified Steel Analysis*. The essay of MARK A. WARTCKI, entitled *A Commercial Synthesis of Thymol*, received honorable mention.

The *Straus Prize*, of \$20, was divided between MRS. PEARL PERSONS for her poem *Together* and HILDA FILLMORE for her poem *Disabled*.

The *Edward Miles Brown Prize*, of \$50, for excellence in English, was awarded to MARY STEINER.

Two prizes for oratory, established by Major Frank J. Jones, are annually awarded to the two members of the Senior class who write and

pronounce the best English orations. For 1918-1919 the *Second Jones Prize*, of \$20, was divided between EDGAR POWERS and LEWIS BROWN, and the *First Jones Prize*, of \$40, was won by MARY STEINER.

The following students were elected to the Delta Chapter of the *Phi Beta Kappa Society* in the State of Ohio:

MARTHA ANDERSON	CHARLOTTE PICHEL
JULIA GRANT	EDGAR POWERS
MARY HILDEBRANDT	MARGUERITE REID
CHARLOTTE LANDIS	FELIX RESZKE
LAURA McNUTT	MARY STEINER
MARY PATTERSON	MARGHERITA WUENKER
JOSEPHINE PETERSON	

The *Robert Patterson McKibbin Memorial Prize*, a gold medal of the value of \$25, was awarded to WALTER F. HAEHNLE.

The *Julius Fleischmann Scholarships* in the University, offered for the year 1919-1920 to the members of the graduating classes in the accredited schools of the University outside of Cincinnati, were awarded as follows:

JOSEPH ANDREW BOWMAN
 MARY BURNS
 JOHN EMERY ENGLISH
 *J. N. GORDON
 DOROTHY LISTERMAN
 GAYLORD MERRIMAN
 WILLIAM PRICE
 †ELSE LOUISE SCHULZE
 MARY LOUISE STACY
 MARCELINO VIDUYA
 GRACE WEIDIG

COLLEGE OF ENGINEERING

The following students, on account of high scholastic standing and personal worth, were elected to the *Tau Beta Pi Society*:

A. T. BJORN	C. J. PRIEBE
E. H. FLATH	J. V. SMYTHE
H. K. JUSTICE	F. C. TODD
A. H. KNEBEL	F. J. WRIGHT
I. L. KOHLMANN	H. A. WOLSDORF

*First semester only

†Second semester only

COLLEGE OF MEDICINE

The successful competitors for places as resident physicians in hospitals in 1919 are as follows:

Cincinnati General Hospital

DOROTHEA HAVEN SCOVILLE	MRS. MILDRED LAW SNYDER
ERNEST EDWARD BISHOP	DAVIS LILLARD
WILLIS EDWARD WYGANT	JAMES THOMPSON

Christ Hospital

JOSEPH ALGER CONNER
SCHUYLER COLFAX ROUSEY
BENJAMIN F. SUFFRON

Good Samaritan Hospital

CHARLES STEWART NOONAN
FRANK GEORGE WELLMAN

St. Luke's Hospital, St. Paul, Minn.

NORMAN BARDEN

City Hospital, Louisville, Ky.

ROBERT FREDERICK BRAUNLIN

Miami Valley Hospital, Dayton, O.

WARD DENVER COFFMAN
FRANK VIERLING

St. Francis Hospital, Colorado Springs, Colo.

ERNEST ROGERS DRYER

Creighton University Hospital, Omaha, Neb.

JOHN CHARLES HAGIN
ROBERT SCOTT MARTIN

Mt. Sinai Hospital, Cleveland, O.

LLOYD LEGGETT HOSKINS
GEORGE WALLACE RYALL, JR.

Harlem Eye and Ear Hospital, New York City

DONALD JOHNSON LYLE

Allegheny General Hospital, Pittsburgh, Pa.

HOMER WILSON MCCREARY
RALPH JACKSON RAYBECK

SCHOOL OF NURSING AND HEALTH

In 1918 the *Society of Colonial Dames in the State of Ohio* offered three scholarships of \$300 each to first-year students. These were awarded to the following:

MARGARET BUSCHE
MARY CHANEY
HELEN BURTON STICKNEY

The scholarship of \$300 given by *Mrs. D. B. Meacham* in 1918 was awarded to IRMA FINLAY.

The scholarship of \$300 given by the *Cincinnati Woman's Club* in 1918 was awarded to BARBARA LUKEMIRE.

In 1918 the *Cincinnati Chapter of the American Red Cross* offered ten scholarships of \$300 to students in the seven schools of nursing in Cincinnati. Six of these were awarded to the following first-year students in the School of Nursing and Health:

IRENE LOU KELTNER	EMMA LYDIA MILLER
MARJORY CLARK	ADDIE ALEXANDER
HAZEL CECILE DOHERTY	LOUISE APER

The *Therese Scheuer Scholarship* of \$300, given by Mrs. Samuel and Mrs. David I. Wolfstein, in memory of their mother, was awarded to GLADYS MCKINNEY.

Announcement is also to be made that Mrs. Julian Pollak has given a scholarship called the *Louise H. Pollak Scholarship* of \$300.

COLLEGE OF LAW

(Cincinnati Law School)

A prize of \$75 is given to the student having the highest average of credits during the three years' course.

This prize was awarded to MRS. PAULINE BENSON WERNER.

A prize of \$50 is given to the student having the next highest average of credits during the three years' course.

This prize was awarded to MISS JOHANNA SOMERFIELD DAVIS.

The faculty has established a scholarship to be awarded to a student, selected by the faculty, who has completed the course of study prescribed for the second-year class.

This scholarship was awarded to MR. ELCANON ISAACS.

Mr. Richard H. Wald gives a scholarship each year to the student making the best record in the subject of Contracts.

This scholarship was awarded to MR. LAWRENCE ROY LYTLE.

By his will, the late Honorable John R. Sayler left to the school a fund, out of the proceeds of which a prize of \$50 for the best essay on the subject of Evidence is given each year. The essays submitted last year were graded by Judge Walter M. Shohl and Judge Thomas H. Darby, who concurred in awarding the prize to MR. THOMAS LEROY TALLENTIRE.

HOLDERS OF FELLOWSHIPS SINCE 1900

FELLOWSHIPS BY COURTESY:

Eliab Washburn Coy	1906-07
Frederick Alwin King	1906-07
Gordon Woods Thayer	1908-09
Nathan Tovio Isaacs	1910-11
Elliott Smith	1910-11
T. Warrington Gosling	1912-13, 1913-14
Sebastian J. Mauchly	1913-14
Elizabeth Baldwin Demarest	1914-15

D. A. R. FELLOWSHIP IN AMERICAN HISTORY:

George Washington Johnson.....	1900-01
Mabel Sara Carpenter.....	1901-02
Alice McGuffey Morrill	1902-03, 1903-04
Isaac J. Cox	1904-05
Frank P. Goodwin	1905-06
Helen L. Stein	1906-07
Marie Paula Dickoré	1907-08
Henrietta Marie Mackzum	1909-10
Lesley Henshaw	1910-11
Elizabeth Thorndyke	1911-12
Reginald C. McGrane	1912-13
Margaret Beach Plimpton	1913-14
Miriam B. Urban	1914-15
Mary E. Morgan	1915-16
Helen Swineford	1916-17
Eleanor Stanwood Wilby.....	1917-18
Minnie Isabel Landen	1918-19
Herbert T. Leyland	1919-20

ALLIANCE FRANÇAISE SCHOLARSHIP IN FRENCH:

Alice Wilson	1905-06
Louis Selbert.....	1908-09
Carrie May Perin.....	1909-10

COLONIAL DAMES FELLOWSHIP IN OHIO VALLEY HISTORY:

Theodore T. Belote	1906-07
Earl Francis Colborn	1907-08
Edgar Chew Sweeney	1908-09
Paul Philip Rover	1909-10
H. Dora Stecker	1910-11, 1911-12

HANNA FELLOWSHIP IN PHYSICS:

Robert Clyde Gowdy	1906-07, 1907-08, 1908-09
Edward G. Rieman	1909-10, 1910-11
Sebastian J. Mauchly	1911-12, 1912-13
Edward Joseph Lorenz	1913-14, 1914-15
Lowell Alexander	1915-16, 1916-17
Harold F. Richards	1917-18
Guy Read Bradshaw	1918-19
Harold F. Richards	1919-20

TEACHING FELLOWSHIP IN CHEMISTRY:

Harry Shipley Fry	1901-02
Geoffrey Arthur Gray	1902-03
Ralph Ballard Dimmick	1906-07

TEACHING FELLOWSHIP IN ECONOMICS:

Eugene Ewald Agger	1901-02
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TEACHING FELLOWSHIP IN BIOLOGY:

William O. Pauli	1902-03
Mabel Spellmire	1903-04
Joseph Hughes Shaw	1904-05
Stanley Rossiter Benedict	1905-06
Leon D. Peaslee	1907-08, 1908-09
Louis W. Sauer	1907-08, 1908-09
Vernon Lantis	1909-10, 1910-11

TEACHING FELLOWSHIP IN PHILOSOPHY:

Abraham Cronbach	1902-03
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TEACHING FELLOWSHIP IN ENGLISH:

Arthur James Kinsella	1903-04
Elizabeth Merrill	1904-05

TEACHING FELLOWSHIP IN MODERN LANGUAGES:

Elsie Metz	1903-04
------------------	---------

TEACHING FELLOWSHIP IN PHYSICS:

Harry L. Wieman and Earl Farnau	1903-04
Herbert M. Hughes	1904-05

FELLOWSHIP IN PHYSICS:

William Bell Cartmel	1905-06
----------------------------	---------

BALDWIN FELLOWSHIPS:

William H. Bell	1919-20
Jacob Feld	1919-20
John F. Heavner	1919-20
George W. Hoeck	1919-20
Anne Susan McLaughlin (Mrs. Roy)	1919-20
Walter Soller	1919-20
Elsa Mae Tyndall	1919-20
Alma M. Wuest	1919-20

GRADUATE FELLOWSHIP IN ECONOMICS:

George E. Martin	1919-20
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E. I. DU PONT DE NEMOURS FELLOWSHIP IN CHEMISTRY:

Joseph Lawrence Donnelly	1919-20
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UNIVERSITY OF ILLINOIS LIBRARY

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DEGREES CONFERRED IN JUNE, 1919

GRADUATE SCHOOL

DOCTOR OF PHILOSOPHY

EDWIN WALTER ESSLINGER

MASTER OF ARTS

HELEN EDMUNDS BROWN
JAMES THAMBDURAI CORNELIUS
LENA MAUD CRISSEY
JOSEPH LAWRENCE DONNELLY

LEON FRAM
MARY ELIZABETH MORGAN (Mrs. A. D.)
CARRIE MAY PERIN
MEYER SALKOVER

McMICKEN COLLEGE OF LIBERAL ARTS

BACHELOR OF ARTS

MARTHA STRATTON ANDERSON
MARY ALICE ANDERSON
FRANK ASTON
MARION ELIZABETH BOUND
HULDA BRACKMAN
LEWIS PHILLIP BROWN
WILLIAM HARRY BRUEGGEMAN
ALMA BURKE
PAUL BURROUGHS CLARK
CATHERINE DEVEREAUX COLDEWEY
DOROTHY ELIZABETH CONE
MARGARET LOUISE CORDES
LUCILLE LEOLA CRAGG
CORA TUNIS DICKERSON
EDNA MAY DOUGLASS
MILTON MARCUS ELISCHAK
ELMER GEORGE FEUSSE
HELEN JULIA FLANNERY
ISER FREUND
WILLIAM LESTER FULDNER
ELIZABETH GATES
MARIANNE ANGELA GAU
MIRIAM GEIS
ALBERT GOLDMAN
JULIA CADY GRANT
WALTER FEID HAEHNLE
BERTA B. HARPER
CHARLOTTE HELEN HAUPT
RUTH VIRGINIA HELMERS
LUCAS HERRIN
MARY MARGARET HILDEBRANDT
ELIZABETH HOTTENDORF
FERDINAND MYRON ISSERMAN

JOHANNA KAHR
ELSA PEVERLY KIMBALL
MARY FRANCES KINNEY
ANNA BOURNE KNIGHT
BLANCHE CLARA KOENIG
CHARLOTTE HENRIETTA LANDIS
ARTHUR CRANE MCFARLAN
WILLIAM CORNELIUS MCINTIRE
LAURA BELLE McNUTT
STEPHEN JAMES MADDOCK
WILLIAM AUGUST MARGRAF
HARRY STERLING MARGOLIS
LILLIAN ANNETTA MEEDS
WILLIAM MACKIE MYERS
EARL MAURICE OTTO
MARIE OVERMANN
GAIL PARKER
MARY ARTEMESA PATTERSON
MRS. PEARL BEMIS PERSONS
JOSEPHINE CLARK PETERSON
CHARLOTTE REICH PICHEL
EDGAR MAURICE POWERS
RACHEL KATHLEEN PUTT
ALTA FERN RAMSEY
MARGUERITE REID
FELIX EUGENE RESZKE
BAYLE MANSER RICHARDSON
LOUISE AUGUSTA SCHAEFER
JESSIE LOUISE SCHENK
HENRY EDWARD SCHMIDT
MARY FRANCES SETCHEL
MARGUERITE ELLEN SHIGLEY
ABRAHAM ISAAC SHINEDLING

PEARL SILVERSTEIN
 META LAURA SIMON
 ELIZABETH NOURSE STACY
 HOWARD EDWARD STAPLETON
 MARY CATHERINE STEINER
 ANNA HARRIET STEPHENS
 EDWARD BERNARD SUDHOFF

ANNA MARIE SULLIVAN
 DORIS TIETIG
 LILYMAE WATTS
 LUCILLE WILLARD
 MARGHERITA LOUISE WUENKER
 ELIZABETH JANE ZIMMERMAN

BACHELOR OF SCIENCE

For Work in Liberal Arts and School of Nursing and Health

PARTHENIA KATHARINE FOSTER

ABBIE ROBERTS

BACHELOR OF SCIENCE

For Work in Liberal Arts and College of Medicine

EVERETT SIDNEY CASSADY
 HALFORD CONWELL
 DAVID CARSON DAVIS
 HARRY DRACHENBERG
 CLARENCE FRAAS
 JOSEPH NICHOLAS GANIM
 KARL WILLIAM HORN
 WILLIAM AUGUSTUS KOEHLER
 HUGH A. KUHN

HERMAN L. LAVENDER
 JOSEPH LINDNER
 JOSEPH ROBINS
 LOUIS SOMMER
 CECIL STRIKER
 ALPHONSE R. VONDERAHE
 HAROLD HARR WAGNER
 GERARD THOMAS WILKE

COLLEGE FOR TEACHERS

BACHELOR OF SCIENCE

TRACY GERTRUDE ABRAMS
 MARIE HARRIET ACOMB
 LILLIE BECKER
 MARION BEEKLEY
 EMMA AUGUSTA BOYD
 BERTHA BRUCKMAN
 MYRTLE BUENTE
 ALICE VIRGINIA BURDGE
 FLORENCE BYER
 HELEN CLARA COOK
 CHARLENE CULBERTSON
 EDITH AGATHA DOLAN
 EVELYN MARY ENNEKING
 CATHERINE IMOGENE FOLEY
 ALICE GRAY
 MARGARET GREEN
 MARIE CHARLOTTE HEALEY
 MRS. JENNIE LEVITCH HERMAN
 MARY KUGHLEY HOLLOWAY
 KATHERINE LOUISE JAMIESON
 ELIZABETH JEANETTE JENKINS
 ELSIE JORDAN
 MARGARET HALL JORDAN
 HELEN KAULE
 JENNIE HARRIET KEMP
 ETHEL GRACE KIENZLE
 KATHERINE MAY KREIDLER
 LORNA CAROLYN KRUSE

ERMA GERTRUDE LISCHKOFF
 DAMARIS McMILLAN
 MARJORIE JAY MILLER
 RUTH ELLEN MOORE
 MARJORY HELEN MORRIS
 ALICE CATHERINE MYERS
 MARJORIE NICHOLS
 MARAON NELSON PAVEK
 ANNETTA PHILLIPS
 SWEET MARIE PICHEL
 ELEANOR AUSTIN REEMELIN
 HORTENSE MAY REITER
 EUNICE GRACE RIGGS
 MARGUERITE CHARLOTTE RUNCK
 SUSANNA SOPHIA SCHAFFER
 ALFRED CASPER SCHICK
 JANE LOUISE SCHMID
 MARIE ESTELLE SCHROER
 MILDRED SNYDER
 MARGARET SPICKER
 EDNA MARIE STUNTZ
 MARGERY VIDA VAN SICKLE
 MABEL WALTON
 JUANITA ALBERTA WEATHEREY
 ALTA GRACE WHEATON
 SARAH HARRIET WHITE
 ELIZABETH ROSINA ZORN

GRADUATE DIPLOMA IN SECONDARY EDUCATION

ANNA LUEDERS
BESSIE MARKS MANNING
MARY ROSALIE MUDGE

MEYER SALKOVER
MARIE ANTOINETTE STURWOLD
MARJORIE ADELINE TELLEFSEN

GRADUATE DIPLOMA IN ELEMENTARY EDUCATION

CLARA MONROE ACKERSON

MARCELLA MARIE LEEN
JULIETTA WEINBERGER

GRADUATE DIPLOMA IN PHYSICAL EDUCATION

SOPHIE WILHELMINE BRUNHOFF

TEACHER'S DIPLOMA IN HOME ECONOMICS

JESSIE M. DANZIGER
HELEN EMILIE HAUCK
MARY ELIZABETH MOORE

TEACHER'S DIPLOMA IN ART

IRENE FRANCES BLASCH
EVELYN ROSALIE GAULT

AGNES ISABEL PRIZER
BLANCHE ELLEN WAIT

COLLEGE OF COMMERCE

BACHELOR OF SCIENCE IN COMMERCE

MILDRED MARIE PFISTER

COLLEGE OF ENGINEERING

BACHELOR OF CHEMICAL ENGINEERING

CHARLES FISHER, JR
HAROLD ADAMS MERTEN
CHARLES HAROLD SLOAN

BACHELOR OF CIVIL ENGINEERING

HERMAN CHAMBERS HOWLAND

BACHELOR OF MECHANICAL ENGINEERING

CHRISTOPHER LIEBEL KOEHLER
LEE ROBERT TEBOW

CHEMICAL ENGINEER

WALTER THOMAS BAGEL
WALLACE WILLIAM BOONE
CHARLES HERMAN GRAEBE
ROBERT LEROY JOHNSON

EARL KINCAID
OTTO CARL FERDINAND LIPPERT
JACOB HENRY LITWIN
MARK ABRAHAM WARTCKI

CIVIL ENGINEER

JAMES EGELSTON ALLAN
RUPERT ANDREW ANDEREGG
ALBERT THEODORE BJORN
WILLIAM DONALD EHLERS
ROBERT BENJAMIN FULLER
OSCAR SAMUEL JUERGENS
HOWARD KENNETH JUSTICE
ERWIN COLUMBUS KELLY

IRWIN LAQUE KOHLMANN
ARNOLD NEUFFER
CLIFTON DWIGHT NORRIS
JESSE VIRGIL SMYTHE
WILLIAM BRYAN TAULMAN
FRED CHARLES TODD
FRANCIS JAMES WRIGHT

ELECTRICAL ENGINEER

GEORGE FRED EMBSHOFF
EARL HUGO FLATH
HENRY ALBERT KATZ
CECIL ABRAM KAPP

WILLIAM JAMES MORGAN
CHARLES SHATTUC SERYOCK
SAM MORGAN THOMAS

MECHANICAL ENGINEER

ARTHUR HENRY KNEBEL
ALFRED JACOB NOCKA
CEDRIC JOSEPH PRIEBE

LELAND HENDRICK SMITH
HENRY CALMER UHLEIN
HENRY ADOLF WOLSDORF

COLLEGE OF MEDICINE

NORMAN BARDEN
ERNEST EDWARD BISHOP
ROBERT FREDERICK BRAUNLIN
WARD DENVER COFFMAN
JOSEPH ALGER CONNER
FORREST PEMBRICK COOMBS
JAMES THAMBIDURAI CORNELIUS
ERNEST ROGERS DRYER
JOHN CHARLES HAGIN
LLOYD LEGGETT HOSKINS
DAVIS LILLARD
DONALD JOHNSON LYLE
CLIFTON FOREST MCCLINTIC
HOMER WILSON MCCREARY

ROBERT SCOTT MARTIN
CHARLES STEWART NOONAN
RALPH JACKSON RAYBECK
JOSE COLON ROMAN
SCHUYLER COLFAX ROUSEY
GEORGE WALLACE RYALL, JR.
DOROTHEA HAVEN SCOVILLE
MILDRED LAW SNYDER
BENJAMIN F. SUFFRON
JAMES THOMPSON
FRANK VIERLING
FRANK GEORGE WELLMAN
WILLIS EDWARD WYGANT

SCHOOL OF NURSING AND HEALTH

DIPLOMA OF GRADUATE NURSE

EUNICE ETHELYN BAILEY
 EDNA McCLURE BARLEY
 CHARLOTTE ANNE BARNEY
 LOUISE HAMPTON BODELL
 MINNIE AUGUSTA BOHLMAN
 RUTH CHALKEY
 LOUISE NICHOLS EBLING
 PARTHENIA KATHARINE FOSTER
 BLANCHE AUGUSTA GIMPEL
 DOROTHY HODGES
 MARY ELIZABETH HOFF
 OPHELIA LAWRENCE HOFMANN
 JESSIE BLANCHE HUSSEY
 HILDA SELMA LACKNER
 WILLODENE ELISIE PARRISH

SUSAN CAROLINE PORTER
 *MARY CECELIA RIFFEL
 JEANETTE HARRIET ROSELIUS
 MURIEL LOURENA SCHAUSEIL
 MARY LOUISE SCHMUECKLE
 MATHILDA L. C. SCHOFSTOLL
 LORENE ADELAIDE SEBERT
 LUELLA CAROLINE SMITH
 LILLIAN STIRLING
 LULU ALICE SUMMERS
 CORRINE C. TEBBS
 LILLIAN D. TENNENBAUM
 ETHEL VIOLA WILSON
 MABEL EVA WITTEK
 NETTIE ESTELLA WITTER

SPECIAL CERTIFICATE IN PUBLIC HEALTH NURSING

GERMAINE ADELE PERILLON

COLLEGE OF LAW

(Cincinnati Law School)

WILLARD DAVIS ANSPACH
 JOHANNA SOMERFIELD DAVIS
 JULIUS HOLZBERG
 WILLIAM HABEKOTTE KOENIG
 HERBERT THOMPSON LEYLAND
 BENJAMIN PHINEAS PINK
 CHARLES HERBERT PURDY
 LAWRENCE HENRY STELTENPOHL
 THOMAS LEROY TALLENTIRE
 PAULINE BENSON WERNER

*Died in service during influenza epidemic, October, 1918.

SUMMARY OF GRADUATES, JUNE, 1919

Graduate School	9
McMicken College of Liberal Arts:	
A. B. Degree	79
B. S. Degree	19
	— 98
College for Teachers:	
B. S. Degree	55
Diplomas	17
	— 72
College of Commerce	1
College of Engineering	42
College of Medicine	27
School of Nursing and Health	31
College of Law	10
	—
Total	290
Twice Counted	3
	—
Net Total	287

REGISTRATION OF STUDENTS

1919-1920

ABBREVIATIONS

Any one of the following abbreviations placed beside a student's name indicates that he is taking work in the college designated as well as in the college in which he is listed:

CC	College of Commerce
ELA	Evening Courses in the College of Liberal Arts
LA	College of Liberal Arts
LA—D&E	Day and Evening Courses in the College of Liberal Arts
MC	College of Medicine
TC	College for Teachers
EC	College of Engineering
EC	College of Engineering
CL	College of Law
G	Graduate School

GRADUATE SCHOOL

HANNA FELLOW IN PHYSICS

RICHARDS, HAROLD FREDERICK (*Physics*) 3205 Harvey Ave.
A. B., *University of Cincinnati*, 1916; A. M., *Ibid*, 1917

D. A. R. FELLOW IN AMERICAN HISTORY

LEYLAND, HERBERT T. [*Dup.*] 2030 Auburn Ave.
LL. B., *University of Cincinnati*, 1919

BALDWIN FELLOWS

BELL, WILLIAM H. (*Bacteriology*) 1803 Williams Ave., Norwood, O.
A. B., *Indiana State Normal College*, 1917; A. M., *University of Indiana*, 1918
FELD, JACOB [*Civil Engineering*] [*Dup.*] 511 Hickory St., and 582 Herkimer St., Brooklyn, N.Y.
B. S., *College of the City of New York*, 1918
HEAVNER, JOHN F. [*Economics*] [CC] 304 Randolph Ave., Elkins, W. Va.
A. B., *Ohio Wesleyan University*, 1919
HOECK, GEORGE W. (*Bio-Chemistry*) 2822 Highland Ave.
*McLAUGHLIN, ANNE SUSAN (MRS. ROY) (*Education*) 756 Froome Ave.
A. B., *University of Cincinnati*, 1905; A. M., *Ibid.*, 1906
SOLLER, WALTER (*Mechanical Engineering*) 2415 Talbott Ave.
M. E., *University of Cincinnati*, 1917
TYNDALL, ELSA MAE (*English*) 240 E. University Ave., and Lebanon, Ill.
A. B., *Ewing College*, 1909
WUEST, ALMA M. (*Mathematics*) 158 W. McMillan St.
A. B., *University of Cincinnati*, 1915

*First semester only

GRADUATE FELLOW IN ECONOMICS

MARTIN, GEORGE E. [*Economics*] [CC] . . . 210 W. McMillan St., and 814 Third St., Marietta, O.
A. B., Marietta College, 1917

UNIVERSITY SCHOLARS

BAKER, WILLIAMETTA (*Latin*) 1120 Vine St., Newport, Ky.
DONNELLY, JOSEPH L. (*Chemistry*) [ELA] 291 Mt. Pleasant Ave., Ft. Thomas, Ky.
A. B., University of Cincinnati, 1917
ELLIOTT, ADALINE H. (*English*) 20 Ash St., Ludlow, Ky.
A. B., Miami University, 1908
GAU, MARIANNE A. [*Mathematics*] [TC] 2525 Gilbert Ave.
A. B., University of Cincinnati, 1919
HAEHNLE, WALTER F. (*Romance Languages*) 830 York St.
A. B., University of Cincinnati, 1919
HOUSER, LULU (*Education*) 3550 Bevis Ave.
A. B., Oberlin College, 1908
IOLA, HYMAN (*Philosophy*) 3590 Eden Ave., and 58 Hand St., Rochester, N. Y.
A. B., University of Cincinnati, 1918
KIGER, JOHN H. (*English*) Lane Theological Seminary, and Wheeling, W. Va.
A. B., Maryville College, 1919
ZIMMERMAN, ELIZABETH (*History*) 263 Earnshaw Ave.
A. B., University of Cincinnati, 1919

FIRST SEMESTER

GRADUATE STUDENTS

ACOMB, HELEN JANET (*History*) 5642 Ridge Ave., Pleasant Ridge
A. B., University of Cincinnati, 1911
ADAMS, APPELLONA (*Education*) 3639 Mozart Ave.
B. S., University of Cincinnati, 1918
ARNOLD, HELEN ELIZABETH (*Education*) 3432 Columbia Ave.
B. S., University of Cincinnati, 1918
BAUMANN, GEORGE (*Geology*) 34 W. Second St., Mt. Healthy, O.
B. S., University of Chicago, 1910
BECKER, LILLIE (*Philosophy*) 707 Purcell Ave.
B. S., University of Cincinnati, 1919
BECHTEL, FLOYD ELDON (*Botany*) 2604 Eden Ave.
A. B., Indiana Central University, 1912
BENEDICT, AGATHA HOPE RICE (*Romance Languages*) 857 Hutchins Ave.
B. L., University of Cincinnati, 1895
BETTMAN, MARIAN ROSE 3593 Bogart Ave.
A. B., Bryn Mawr, 1919
BLANK, SHELDON HAAS (*Philosophy*) 857 Rockdale Ave.
A. B., University of Cincinnati, 1918
BLOOM, HENRIETTE GOLDSMITH (*English*) 3589 Bogart Ave.
A. B., Smith College, 1919
BOLAN, ELIZABETH M. (*Education*) 14 E. Eighth St., Covington, Ky.
A. B., University of Cincinnati, 1914
BROWN, WINFRED Q. (*Education*) 3326 Orion Ave., Pleasant Ridge
B. S., North Indiana Normal, 1895; A. M., University of Wisconsin, 1912

BROWNING, MARJORIE MAE (<i>English</i>)	911 Marion Ave., and Decatur, Mich.
A. B., <i>Albion University</i> , 1915	
BURDGE, ALICE VIRGINIA (<i>Social Science</i>)	1873 Kinney Ave.
B. S., <i>University of Cincinnati</i> , 1919	
CHAMBERS, ENOLIA (<i>Education</i>)	3182 McHenry Ave.
A. B., <i>University of Cincinnati</i> , 1918	
CLARK, DOROTHY ELIZABETH (<i>English</i>)	5543 Arnsby Place
A. B., <i>University of Cincinnati</i> , 1917	
CLIPPINGER, VIRGINIA WELTY [<i>English</i>] [TC]	4412 Erie Ave.
A. B., <i>Western Reserve University</i> , 1919	
CONNER, MAY S. (<i>Education</i>)	3242 Gilbert Ave.
Ph. B., <i>Ohio University</i> , 1902	
CORNUELLE, HERBERT CUMMING (<i>Social Science</i>)	4518 Whetzel Ave.
A. B., <i>University of Cincinnati</i> , 1915; B. D., <i>Ibid</i> , 1918	
CUMMINS, MARY DOROTHY (<i>English</i>)	2921 Woodburn Ave.
A. B., <i>University of Cincinnati</i> , 1914	
DAVIDSON, CHARLES LOWELL (<i>Education</i>)	2145 Sinton Ave.
A. B., <i>Yale University</i> , 1907	
DOLAN, EDITH AGATHA (<i>Education</i>)	3981 Lowry Ave.
B. S., <i>University of Cincinnati</i> , 1919	
DOUGLASS, EDNA MAY (<i>English</i>) [TC]	332 Rockdale Ave.
A. B., <i>University of Cincinnati</i> , 1919	
EICHELBERGER, FREDERICK LOUIS ARTHUR (<i>Economics</i>)	615 Coppin Bldg., Covington, Ky.
B. S., in <i>Economics</i> , <i>University of Pittsburgh</i> , 1915	
EWAN, SYLVIA (<i>Education</i>)	2514 May St.
B. L., <i>University of Cincinnati</i> , 1896	
FEUSSE, ELMER GEORGE (<i>Chemistry</i>)	1906 Bigelow St.
A. B., <i>University of Cincinnati</i> , 1919	
FLANAGAN, GRACE IRENE (<i>Education</i>)	3212 Mozart Ave.
B. S., <i>University of Cincinnati</i> , 1918	
FOSTER, PARTHENIA KATHARINE (<i>Social and Political Science</i>)	3301 Clifton Ave.
B. S., <i>University of Cincinnati</i> , 1919	
FRANZ, GEORGE FREDERICK (<i>Education</i>)	2344 Clifton Ave.
B. S. in <i>Education</i> , <i>Ohio University</i> , 1914	
GETZENDANNER, JESSIE (<i>Education</i>)	2439 Kenilworth Ave., Norwood, O.
A. B., <i>University of Cincinnati</i> , 1915	
GRANT, JULIA CADY [<i>Mathematics</i>] [TC]	2931 Jefferson Ave.
A. B., <i>University of Cincinnati</i> , 1919	
GRODSKY, DAVID HYMAN (<i>Philosophy</i>)	824 Windham Ave.
A. B., <i>University of Cincinnati</i> , 1915	
GROMME, EMMA (<i>Philosophy</i>)	1832 Brewster Ave.
A. B., <i>University of Cincinnati</i> , 1917	
GROSS, WILLIAM (<i>Biblical Literature</i>)	1935 Eastern Ave.
A. B., <i>University of Cincinnati</i> , 1917	
GUELKER, HERBERT (<i>Education</i>)	1015 Academy Ave.
A. B., <i>University of Cincinnati</i> , 1912	
HAEHNLE, ELMER CHRISTIAN (<i>Education</i>)	830 York St.
A. B., <i>University of Cincinnati</i> , 1911	
HAGEMeyer, ELIZABETH CHRISTINE [<i>Education</i>] [TC]	The Glencoe, Mt. Auburn
A. B., <i>University of Cincinnati</i> , 1918	
HAMPTON, ROSE LENORE (<i>Romance Languages</i>)	Corinth, Ky.
B. S., <i>Millersburg Female College</i> , 1906; A. B., <i>University of Kentucky</i> , 1917	
HARPER, BERTA B. (<i>Education</i>)	828 Maple Ave., Newport, Ky.
A. B., <i>University of Cincinnati</i> , 1919	
HARPER, GRACE MATHIA (<i>Education</i>)	828 Maple Ave., Newport, Ky.
A. B., <i>University of Cincinnati</i> , 1918	
HARRIS, MADELINE HENRIETTA (<i>Botany</i>) [ELA]	245 McCormick Pl.
A. B., <i>University of Cincinnati</i> , 1914	

- HEALEY, MARIE CHARLOTTE (*Philosophy*) 637 Prospect Pl.
B. S., *University of Cincinnati*, 1919
- HECKERMANN, RUTH (*Education*) [E.L.A.] 642 Monroe St., Newport, Ky.
A. B., *University of Cincinnati*, 1918
- HELMERS, RUTH VIRGINIA (*Romance Languages*) [T.C.] 168 Kinsey Ave.
A. B., *University of Cincinnati*, 1919
- HERMAN, CARL NATHAN (*Political Science*) 2706 Woodburn Ave.
A. B., *University of Cincinnati*, 1918
- HICKS, MADELINE (*Economics*) 2425 Ingleside Pl.
A. B., *Wellesley College*, 1917
- HILL, EDITH DURHAM (*Education*) 3330 Fairfield Ave.
A. B., *Miami University*, 1911
- HOOKE, RUTH CATHERINE (*Education*) 950 Nassau St.
HORTON, FRANK OSCAR (*History*) Loveland, O.
A. B., *Oskaloosa College*, 1910
- HOTTENDORF, ELIZABETH (*Botany*) 810 Richmond St.
A. B., *University of Cincinnati*, 1919
- HUNT, ESTELLE AUGUSTA (*English*) 3344 Whitfield Ave.
A. B., *University of Cincinnati*, 1914; A. M., *Ibid*, 1917
- INSKEEP, HAROLD ELWOOD (*Education*) 1810 Garrard St., Covington, Ky.
A. B., *University of Cincinnati*, 1914
- ISSERMAN, FERDINAND MYRON (*Philosophy*) 435 Ridgeway Ave.
A. B., *University of Cincinnati*, 1919
- JONES, ARTHUR DAVE 1200 Hopple St.
A. B., *University of Cincinnati*, 1914
- JONES, EFFIE MAY (*Education*) Forestville, O.
A. B., *Miami University*, 1912
- JORDAN, ELSIE (*Geology*) 1643 Knowlton St.
B. S., *University of Cincinnati*, 1919
- KAHR, JOHANNA (*English*) 259 Greendale Ave.
A. B., *University of Cincinnati*, 1919
- KAPLAN, SAMUEL S. (*Philosophy*) 5 LeRoy Court
A. B., *University of Cincinnati*, 1916; A. M., *Ibid*, 1917
- KARBLER, JOHN PHILIP (*Physics*) 30 St. Clair St., and Vickery, O
B. S., *Heidelberg University*, 1919
- KIMBALL, ELSA PEVERLY [*English*] [T.C.] The Parkside, Clifton
A. B., *University of Cincinnati*, 1919
- KRAUPNER, WILLIAM (*Mathematics*) 5335 Tompkins Ave., Madisonville
- LANDIS, CHARLOTTE HENRIETTA (*Chemistry*) Conservatory of Music
A. B., *University of Cincinnati*, 1919
- LAWES, ESTELLA (*Philosophy*) 2405 Auburn Ave.
A. B., *Western Reserve University*, 1910
- LONG, MAXWELL BUDD (*Greek*) 3551 Michigan Ave.
A. B., *Kenyon College*, 1905
- LORENZ, ELEANOR MARY (*Geology*) 1500 E. North Bend Road
A. B., *University of Cincinnati*, 1913
- LOTTER, FREDERICK D. (*Romance Languages*) 2425 McMicken Ave.
A. B., *University of Cincinnati*, 1910; A. M., *Ibid*, 1916
- LYLE, JOSEPH WILSON (*Education*) 551 Prospect Pl.
B. S. in *Education*, *Ohio University*, 1914
- LYNCH, BEATRICE HOLLISTER (*Education*) 48 Hollister St.
A. B., *Smith College*, 1916
- MCGOWAN, CAROLYN LEHMAN (*Political Science*) 2857 Observatory Rd.
A. B., *University of Cincinnati*, 1917
- McKHANN, CHARLES FREMONT, JR. (*Parasitology*) Cincinnati General Hospital
A. B., *Miami University*, 1918

McNUTT, HELEN GRACE (<i>Education</i>)	5654 Glenview Ave.
A. B., <i>University of Cincinnati</i> , 1916	
MARGRAF, WILLIAM AUGUST (<i>Chemistry</i>)	119 Lyon St.
A. B., <i>University of Cincinnati</i> , 1919	
MASON, EDWARD CHARLES (<i>Pharmacology</i>)	2111 Burnet Ave., and Springfield, Mo.
A. B., <i>Drury College</i> , 1914	
MICHAEL, LILLIAN [<i>Romance Languages</i>] [TC]	1521 Merrimac Ave.
A. B., <i>University of Cincinnati</i> , 1917	
MILLS, CLARENCE ALONZO (<i>Bio-Chemistry</i>)	572 Terrace Ave.
A. B., <i>University of South Dakota</i> , 1917	
MOORE, MABEL GRANT (MRS. W. E.) (<i>English</i>)	18 Senator Place Apts.
A. B., <i>University of Cincinnati</i> , 1918	
MUDGE, MARY ROSALIE (<i>Latin</i>)	19 E. Eighth St., Covington, Ky.
A. B., <i>University of Cincinnati</i> , 1916	
MURPHY, ADA MARGUERITE (<i>English</i>)	241 E. University Ave.
A. B., <i>University of Cincinnati</i> , 1907	
NIELSEN, OLIVE RICHARDSON (<i>Philosophy</i>)	564 Delta Ave.
A. B., <i>University of Cincinnati</i> , 1916	
NOONAN, FRANCESCA R. (MRS. CHARLES S.)	238 Melish Ave.
B. S., <i>University of Cincinnati</i> , 1917	
O'BRIEN, EDNA (<i>English</i>)	2721 Woodburn Ave.
A. B., <i>University of Cincinnati</i> , 1914	
OLT, GEORGE RUSSELL (<i>Philosophy</i>)	2366 Stratford Ave.
A. B., <i>Wilmington College</i> , 1918	
OSTERBROCK, WILLIAM CARL (<i>Electrical Engineering</i>) [ELA]	3031 Marshall Ave.
E. E., <i>University of Cincinnati</i> , 1918	
OTTO, CARL EVERETT (<i>Chemistry</i>)	1 Highway Ave., W. Covington, Ky.
A. B., <i>University of Cincinnati</i> , 1916	
OTTO, EARL MAURICE (<i>Chemistry</i>)	1 Highway Ave., W. Covington, Ky.
A. B., <i>University of Cincinnati</i> , 1919	
PARKER, GAIL (<i>Geology</i>)	645 Linden Ave., Newport, Ky.
A. B., <i>University of Cincinnati</i> , 1919	
PARKER, HARRIET I. W. L. (MRS. WILLIAM H.) (<i>Philosophy</i>)	2 Glen Armond Ave.
B. L., <i>Bucknell College</i> , 1894; A. M., <i>University of Cincinnati</i> , 1910	
PECK, EDITH WELD (<i>English</i>)	The Parkside, Clifton
B. L., <i>University of Cincinnati</i> , 1894	
PERIN, KATE PRESOCIA (<i>Geology</i>)	5524 Madison Rd.
A. B., <i>University of Cincinnati</i> , 1908	
PERSONS, PEARL BEMIS (<i>English</i>) [TC]	113 Lyon St.
A. B., <i>University of Cincinnati</i> , 1919	
PFISTER, MILDRED MARIE (<i>Philosophy</i>)	3716 Maple Park Ave., Hyde Park
B. S., <i>University of Cincinnati</i> , 1919	
PHILLIPS, RUTH L. (<i>Zoology</i>)	Western College, Oxford, O., and Cheshire, Mass.
Ph. B., <i>Syracuse University</i> ; A. M., <i>Ibid.</i>	
PICHEL, CHARLOTTE REICH [<i>Romance Languages</i>] [TC]	360 Northern Ave.
A. B., <i>University of Cincinnati</i> , 1919	
QUIRK, WILLIAM ALAN (<i>Education</i>)	4012 Forest Ave.
A. B., <i>University of Cincinnati</i> , 1906	
RAITT, ANNA HALL (<i>Botany</i>)	1875 Fairfax Ave.
A. B., <i>University of Cincinnati</i> , 1911	
RASCHIG, ADELE LOUISE (<i>Mathematics</i>)	2535 Stanton Ave.
A. B., <i>University of Cincinnati</i> , 1910	
REICHERT, IRVING FREDERICK (<i>Philosophy</i>)	501 Carplin Pl.
A. B., <i>University of Cincinnati</i> , 1918	
RENNER, MARTHA MILLER (MRS. O. J.) (<i>Romance Languages</i>)	University Court
A. B., <i>University of Cincinnati</i> , 1910; Ph. D., <i>Ibid.</i> , 1918	

- RIFFE, LAURA CASSEDY 1802 Madison Ave., Covington, Ky.
A. B., *University of Cincinnati*, 1916
- RIKER, ALBERT JOYCE (*Botany*) 1916 Bigelow St.
A. B., *Oberlin College*, 1917
- ROWELL, MARY EMMA (*Mathematics*) 849 Hutchins Ave.
A. B., *University of Cincinnati*, 1907; A. M., *Ibid.*, 1910
- SACHS, EUGENIE HELLMAN (*English*) 932 Avondale Ave.
A. B., *Wellesley College*, 1919
- SALKOVER, MEYER (*Mathematics*) 3560 Eden Ave.
A. B., *University of Cincinnati*, 1917; A. M., *Ibid.*, 1919
- SCHENK, JESSIE L. (*Education*) [ELA] 126 E. Front St., Newport, Ky.
A. B., *University of Cincinnati*, 1919
- SELLEW, GLADYS (*Economics*) 1603 E. McMillan St.
A. B., *University of Cincinnati*, 1918
- SEXTON, LELA KENNEDY (MRS.) (*Romance Languages*) 3211 Jefferson Ave.
A. B., *Buller College*, 1919
- SNYDER, JOHN WESLEY, JR. (*Education*) 3520 Larkspur Ave., Hyde Park
A. B., *University of Cincinnati*, 1915
- SNYDER, LOUISE STOCKMAN (MRS. JOHN W., JR.) (*Education*) 3520 Larkspur Ave., Hyde Park
B. S., *University of Cincinnati*, 1915
- SPALDING, ALICE AMY (*English*) 1810 Young St., and Upland, Ind.
A. B., *Taylor University*, 1916
- SPELMAN, JOHN DILLON 1828 Freeman Ave.
M. D., *University of Cincinnati*, 1911
- STANLEY, HELEN ABIGAIL (*Latin*) 3576 Zumstein Ave.
A. B., *University of Cincinnati*, 1913; A. M., *Ibid.*, 1914
- STEINER, MARY CATHERINE [*English*] [TC] 3042 Taylor Ave.
A. B., *University of Cincinnati*, 1919
- STRATE, JESSIE B. (*Geology*) 5744 Bramble Ave.
B. S., *University of Chicago*, 1909
- STRAUS, ROBERT LEE (*English*) Hamilton Apts., Avondale
A. B., *University of Cincinnati*, 1917
- STRUBBE, ALFRIDA ANNA (*Psychology*) 2833 Winslow Ave.
A. B., *University of Cincinnati*, 1910
- STUNTZ, EDNA MARY (*English*) [ELA] 2981 Observatory Ave.
B. S., *University of Cincinnati*, 1919
- STURWOLD, MARIE ANTOINETTE (*English*) 1063 Overlook Ave.
A. B., *University of Cincinnati*, 1918
- TALCOTT, CAROLYN RENNER (MRS. HAROLD) (*Romance Languages*) University Court
A. B., *Wellesley College*, 1917
- TELEFSEN, MARJORIE ADELINE (*Botany*) 3406 Ormond Ave., Clifton
A. B., *University of Cincinnati*, 1918
- TOPP, BERTHA M. (*Education*) 2606 Melrose Ave.
B. S., *Teachers College*, 1917
- TRISLER, ANNA HITZFELD (MRS.) (*History*) 241 Twain Ave., Sayler Park
B. S., *University of Cincinnati*, 1917
- VAN WINKLE, EDWIN C. (*Education*) 2231 Reading Rd.
B. S., *Ohio University*, 1913
- VAUPEL, JEAN (*Zoology*) 6024 Lantana Ave.
A. B., *University of Cincinnati*, 1916
- WABNITZ, WILLIAM SEYMOUR (*Education*) 6809 Carthage Pike
A. B., *Ohio State University*, 1916
- WALDMAN, BESSIE (*Education*) 5835 Hamilton Ave.
A. B., *University of Cincinnati*, 1915
- WALDMAN, GERTRUDE (*Education*) 5835 Hamilton Ave.
B. S., *University of Cincinnati*, 1918
- WALKER, EDGAR ALLEN (*History*) 735 Locust St.
A. B., *Miami University*, 1919

WALLS, CALLIE KING (<i>Mathematics</i>)	3214 W. Eighth St. B. S., <i>Ohio University</i> , 1912
WARD, BERTHA EVANS (<i>English</i>)	The Roanoke, Clifton A. B., <i>University of Chicago</i> , 1902; A. M., <i>University of Cincinnati</i> , 1917
WARD, FRANK BIRD (<i>Social Science</i>)	Young Men's Christian Association Ph. B., <i>Denison University</i> , 1917
WHITCOMB, LAMAH E. (MRS.) (<i>Education</i>)	3815 Huntington Ave., Covington, Ky. A. B., <i>Georgetown University</i> , 1910
WILLIAMS, KATHERINE MEREDITH (<i>English</i>)	4425 Station Ave., Winton Place A. B., <i>University of Cincinnati</i> , 1915
WULFF, DORIS (<i>Mathematics</i>)	395 Terrace Ave. A. B., <i>University of Cincinnati</i> , 1918
WURTZ, LOUISE B. (<i>English</i>)	3025 Beekman St. A. B., <i>University of Cincinnati</i> , 1904

ENTERED SECOND SEMESTER

GRADUATE STUDENTS

GUHMANN, RUTH BARBARA	Woolper Ave., Clifton
LYLE, DONALD JOHNSON	4 W. Seventh St.
O'HARA, ETTA MARIE	4434 Ashland Ave., S. Norwood, O.
RICHEY, BELLE MACDIARMID	563 Evanswood Pl.
SWINEFORD, HELEN AGNES	850 Blair Ave.
WILLIAMS, CORA	480 Washington Ave., Bellevue, Ky.

McMICKEN COLLEGE OF LIBERAL ARTS

FIRST SEMESTER

REGULAR STUDENTS

Seniors

AGEE, ROBERT BARRINGTON	1956 Kinney Ave.
ASHBROOK, MRS. HENRIETTE [EIA]	2 Hedgerow Lane
BAKER, WILLIAMETTA	1120 Vine St., Newport, Ky.
BARRETT, MARY VERONICA	2857 Ashmont Ave.
BAZEL, SOLOMON NATHANIEL	521 W. Ridgeway Ave.
BRAUNSTEIN, HARRY AARON	New Castle, Pa., and 2362 St. James Ave.
BROKAW, AUGUST	3558 McHenry Ave.
BROWN, MARGARET TAYLOR	3449 Cheviot Ave.
BUSCH, GLADYS HELEN	271 Gilman Ave.
COHEN, HARRY HERBERT	Washington, D. C., and 3590 Eden Ave.
COOPER, STEWART SANSON	3351 Woodburn Ave.
CROUSE, RACHEL MIRIAM	312 W. Ninth St.
CURTIS, HENRIETTE LUCILE	673 Hawthorne Ave.
DAVIS, ALLEN	347 Forest Ave.
DEBECK, ALICE ELAINE	1850 Kinney Ave.
DICKMAN, EARL RICHARD	227 Albion Pl.
DOLLE, MARION ELIZABETH	Mt. Airy, O.
DRACH, HARVEY EDWARD	2200 Auburn Ave.
FAST, MARY CATHERINE	Villisca, Ia., and 2027 Auburn Ave.

FEINBERG, ABRAHAM LOUIS	Bellaire, O., and 3590 Eden Ave.
FILLMORE, HILDEGARDE MARIA	4227 Williamson Pl.
FISCUS, JOSEPHINE EMMA	3868 Isabella Ave.
FRANKEL, BENJAMIN MOSES	Peoria, Ill., and 3445 Reading Rd.
FREED, ABRAHAM	Brooklyn, N. Y., and 3591 Wilson Ave.
FRY, LAURA MARIAN	3678 Kendall Ave.
GEISERT, MARY FRANCES	Lawrenceburg, Ind., and 471 Ridge Ave.
GLUECK, NELSON	859 Hutchins Ave.
HALL, LOUISE KATHRYN	2211 East Hill Pl.
HARSHBARGER, HELEN MAE	614 E. 4th St., Newport, Ky.
HASKINS, ELEANOR BOWDLE	2102 Dana Ave.
HEINSHEIMER, HELEN LOUISE	6 Castile Apts.
HOFFMAN, VELMA	2860 Shaffer Ave.
HOLMAN, MARION WORKUM	9 Cumberland Apts.
IRWIN, NELLIE MILDRED	6405 Roe St.
JEWETT, MENEFEE CUSTER	646 Overton St., Newport, Ky.
KEATING, KATHERINE AGNES	3588 Outlook Ave.
KEEFER, KATHERINE ADOLPHINE	Terrace Park, O.
KEMP, GERTRUDE ELIZABETH	244 Kearney Ave.
KNAPP, JOHN FRANKLIN [ELA]	1810 Young St.
KNIGHT, HELEN SHERWOOD	4520 Erie Ave.
KRAMER, MARY ELIZABETH	6264 Corbly Rd., Mt. Washington
LANDMAN, MIRIAM	348 Forest Ave.
LANTIS, MARTHA JANE	4222 Cherry St.
LEWIS, LILY	Williamson, W. Va., and 858 Blair Ave.
LILLY, ALICE LOUISE	3300 Woodford Rd.
LUEBBERT, SYLVIA REGINA	589 Terrace Ave.
MCBREEN, MARY ELIZABETH	14 Parkside Apts.
MCDEVITT, ELEANOR	541 Hale Ave.
MCDONALD, MARIA LOUISE	2995 Observatory Rd.
MENDELSON, MATHILDE	350 Rockdale Ave.
MILLER, FREDERICA	Cheviot and Mozart Aves.
NEUMARK, SALOMEA	836 Rockdale Ave.
PADDACK, MARY HELEN	626 Hawthorne Ave.
PEASE, HARVEY PETERS	841 E. Ridgeway Ave.
PHILLIPS, VIRGINIA LYSLE	705 York St., Newport, Ky.
PURVES, MARJORIE ELIZABETH	3461 Brookline Ave.
RAINE, PAULINE LUCRETIA	6363 Montgomery Rd.
RENNER, GEORGE, JR.	2453 Clybourne Pl.
RICHMAN, MRS. KATHERINE LONG	3149 Jefferson Ave.
ROBINSON, JEAN HASTIE	979 Windsor St.
RUPP, LOWELL WILLIAM [ELA]	Harrison, O.
RUTTERER, HAZEL MARGARET	3628 Morris Pl.
RYAN, GRACE MARIAN	4224 Turrill Ave.
SACHS, MILDRED	877 Blair Ave.
SCHWARTZ, WILLIAM BENJAMIN	New York City, and 3121 Harvey Ave.
SECHRIST, ESTHER MARGARET	411 Ludlow Ave.
SEGAL, HANNAH	1335 Myrtle Ave.
SHIELDS, JOHN DEWEY	2134 Madison Rd.
SHILLMAN, SAMUEL	Flat "B", The Hamilton Apts.
SILVERSTEIN, MYRTLE	4039 Rose Hill Ave.
SISSON, DOROTHY	2441 Homestead Pl.
SLUTZ, ELLA JEANNETTE	Clovernook, Mt. Healthy
SMITH, BENJAMIN FRANKLIN [ELA]	660 W. Sixth St.
SPALDING, ELIZABETH MICHIE	24 The Warwick
SPANGLER, GEORGETTA LULU D.	Compton Rd., Wyoming, O.
STARRELS, ELIEU	152 W. McMillan St.
STERN, HARRY JOSHUA	Steubenville, O., and 510 Union St.

STUERWALD, OLGA VIOLET	8333 Woodbine Ave.
SULLIVAN, JANE MILLER	2315 Krouse Ave.
SWING, CATHERINE LOUISE	6230 Robinson Rd.
TAYLOR, AMELIA TRUESDALE	3412 Clifton Ave.
TODD, SAMUEL POGUE	533 Hale Ave.
TSCHUDI, ERWIN WILLIAM H.	1773 Pulte St.
WESTHEIMER, MIRIAM	407 Rockdale Ave.
WILLIAMS, AUBREY WILLIS [ELA]	2800 Gilbert Ave.
WILLIS, LAURA FREDERICA	809 Main St., Covington, Ky.
WINANS, HERBERT STEWART	2527 Ashland Ave.
WOLK, SAMUEL	Baltimore, Md., and 538 Rockdale Ave.
YOUNGERMAN, MORRIS HYMAN	844 Windham Ave.

Juniors

ATKINS, ETHEL L.	4137 Forest Ave., Norwood, O.
AXLINE, ELEANOR	48 Priscilla Apts.
BEALL, AUGUSTUS, JR.	2220 Highland Ave.
BECKER, ELLIOT DALLON	822 Elberon Ave.
BEJACH, HELEN ANN	311 Hearne Ave.
BIDDLE, FRANK CHRISTIAN	621 Riddle Rd.
BOLENBAUGH, MILDRED DIMMITT	565 Delta Ave.
BOTTICHEIMER, HELEN	823 Lexington Ave.
BRADY, HENRIETTA MARGARET	322 Tusculum Ave.
BREUER, ELMA GRETCHEN	2506 Galvin Ave.
BROTTON, BEULAH	127 Huntington Pl.
BROWN, GINCIE BERNICE	3641 Burch Ave.
BROWN, HELEN RUTH	228 Piedmont Ave.
BUCHANAN, VIRGINIA ELIZABETH	The Burnet House
BUCKNER, SOPHIE HARRISON	808 Ludlow Av.
CALDWELL, LEAH MIRIAM	3029 Moosewood Ave.
CANTOR, NAT	Buffalo, N. Y., and 2372 Stratford Rd.
CARPENTER, MILDRED	3855 Reading Rd.
COHEN, ROSALIND JOYCE	767 Clinton Springs Ave.
COHN, BERTHA	817 Mann Pl.
COOK, WALTER ANDREW	241 Hanover St., Hamilton, O.
CRAWFORD, J. EBERSOLE	701 S. Crescent Ave.
CRONE, JOHN ANTHONY	1261 First Ave., Price Hill
DAVIES, CHASE MASON	1629 Lincoln Ave.
DEWEEES, EDNA MABEL	1429 Sycamore St.
DIEFFENBACH, AMY PAULINE	West Alexandria, O., and 911 Marion Ave.
DOSTER, MARJORIE ANNE	2433 Ohio Ave.
DYSART, DOROTHY ROSS	2951 Madison Rd.
EVERSULL, BESS MARIE	Elmwood Place, O., and 414 McGregor Ave.
FEIBLEMAN, MINNA SHUBINSKI	244 Melish Ave.
FINKE, ELEANOR MARIE	419 Resor Ave.
FINKELSTEIN, ADOLPH HYMAN	Goldsboro, N. C., and 538 Rockdale Ave.
FINNEY, FRANK BURNHAM	1835 Hewitt Ave.
FISCHER, ADELE	431 Rockdale Ave.
FORD, FLORENCE LOUISE	61 Auburndale Pl.
FRANCIS, GERTRUDE ANNA	236 E. Third St.
FREUND, ELK LURIE	545 W. Ninth St.
FRIDDMAN, RUTH	776 E. Ridgeway Ave.
FUSSHIPP, MARTHA	2556 Moorman Ave.
GROSSE, MARGARET JOHANNA	5123 Whetsel Ave.
HALL-QUEST, MRS. SHIRLEY	18 The Maplewood

HESTERBERG, ALINE JULIA	1618 Cedar Ave.
HINSCH, WILLIAM HOLCOMB	2333 Upland Pl.
HOPPE, HERMINA JOSEPHINE	1820 Dexter Ave.
HOSHAU, MARY CHRISTINE	231 W. McMillan St.
ISAACS, MOSES	3264 Delaware Ave.
JAMES, AGNES HAMILTON	Tiffin, O., and 958 Marion Ave.
JAMES, OLIVIA WOOD	310 Oak St.
JANSING, DOROTHY ANN	2523 Ingleside Ave.
JOHNSTONE, ETHEL ANNE	2526 May St.
KANE, FLORENCE MARGARET	272 Parkway Ave.
KEHM, CHARLOTTE ELIZABETH	942 Columbia Ave., Newport, Ky.
KEMP, PAUL ALEXANDER [ELA & CC]	Bloomington, Md., and 376 Howell Ave.
KEMPER, VIRGINIA CAMPBELL	2401 Ashland Ave.
KOCH, IDA ELIZABETH	3047 Gilbert Ave.
LAMMERS, HELEN CAROLINE	2797 Montana Ave.
LANGDON, HENRY HARLAN	2038 Beechmont Ave.
LESLEY, FRANCIS	722 E. Sixth St.
LEVINE, SARAH	806 W. Seventh St.
LINDNER, KATHRYN LEHRER	Glendale, O.
McFARLAN, KATHRYN MAGILL	726 W. Ninth St.
MARK, JULIUS	1038 Wesley Ave.
MARTIN, MARION	2844 St. Charles Pl.
MAYER, MINNA MARGARET	725 N. Crescent Ave.
MITTENDORF, EUGENE [ELA]	2608 Melrose Ave.
MORRIS, ROBERT MORSE	2910 Montana Ave.
MURDOCK, EDITH HOPE	3414 Osage Ave.
OHEL, JACOB JESS	3561 Wilson Ave.
PEISER, WALTER GILBERT	W. Brooklyn, N. Y., and 3465 Reading Rd.
PETTIT, LEOLA ERNSTENE [ELA]	2315 Sauer Ave.
POYSELL, DOROTHY MARIE	839 E. Ridgeway Ave.
RAGAN, MAUDE BELLE	521 Richmond St.
RHODES, IDA MAY VIRGINIA	836 Clinton St.
RITZI, EDNA M.	14 Juergens Ave.
ROGATZKY, BERTHA M.	2430 Maplewood Ave.
ROSENBERG, SAMUEL	2560 Eden Ave.
ROTHMAN, WALTER ELIAS	Detroit, Mich., and The Hamilton Apts.
ROWE, LEONARD WILLIAM [ELA]	502 Carplin Pl.
SCHERL, LOUISE DALE	2220 Monroe Ave., Norwood, O.
SCHEUERMAN, ESTHER ANNA	2931 Jefferson Ave.
SCHIFF, SAUL BEN [CC]	918 Richmond St.
SCHMEUSZER, HENRIETTA KATHRYN	4818 Greenlee Ave., St. Bernard, O.
SCHMIDT, MADELINE MIRIAM	3122 Harvard Ave.
SEIFRIED, RUTH MANSFIELD	3251 Beresford Ave.
SHAFER, MRS. ALICIA BAKEWELL	2260 Park Ave.
SIGLER, MIRIAM DORLAND	187 Woolper Ave.
SMITH, FRANCES	5726 Madison Rd.
SNIDER, GEORGE GOULD	5721 Prentice St.
SOMERFIELD, HARRY ALEXANDER, JR.	668 Rockdale Ave.
STEPHENS, DOROTHY MARIE	525 Terrace Ave.
STEVENSON, MARY THOMAS	17 Ft. Thomas Ave., Ft. Thomas, Ky.
THAYER, ROBERT GEORGE	3414 Telford Ave.
TRACY, INEZ	408 Southview Ave.
TREVOR, KATHERINE	3108 Fairfield Ave.
TRUITT, ALICE ESTHER	3630 Heekin Ave.
WACHS, ELENORE GLOVER	235 Hosea Ave.
WAGNER, EDWARD, JR.	2423 Clifton Ave.

WALKER, CHARLOTTE LOVENA	3716 Columbia Ave.
WALKER, HELEN COOPER	3240 Beresford Ave.
WEIR, RUTH LUCILE	3427 Stattham Ave.
WENTWORTH, MRS. MABEL STANLEY	Senator Place Apts.
WHITACRE, FLORENCE LUCILLE	2206 Auburn Ave.
WILKERSON, ALBERT SAMUEL	3061 Greist Ave.
WINSTON, JEAN	Latonia, Ky.
WOLF, RUTH HELEN	1019 Redway Ave.
ZETTEL, WINIFRED	3303 Menlo Ave.

Sophomores

ALLEN, DOROTHY RUTH	1629 Lincoln Ave.
ALLEN, GLADYS PENNY	342 Probasco Ave.
ARNDT, BEULAH KORST	The Maplewood Apts.
BAIRD, MARY EUSEBIA	3638 Zumstein Ave.
BARKER, LOUISE	514 Evanswood Ave.
BARNARD, ALLEN ELIZABETH	1315 Locust St.
BARR, MILDRED	3050 Griest Ave.
BARRETT, MILDRED	7222 Catalpa Rd.
BAUER, GILBERT H.	727 S. Crescent Ave.
BAUER, LOUISE KATHRYN	1840 Kinney Ave.
BIRD, SHIRLEY MAE	18 E. Southern Ave., Covington, Ky.
BISHOP, GEORGE CREED	3205 Vine St.
BOWMAN, MARY BELLE	2439 Moerlein Ave.
BOX, VIRGINIA	3811 Drake Ave.
BRADY, BESSIE	744 Wayne St.
BRAZELTON, HILDRED	3634 Stettinius Ave.
BREUER, LOUISE	Hamilton Ave. nr North Bend Rd.
BRITNEY, DOROTHY VAN WINKLE	3655 Middleton Ave.
BROTTON, INEZ ERNESTINE	127 Huntington Pl.
BROWN, RALPH	1356 Burdette Ave.
BURRUS, MORA LUCILLE	43 E. McMillan St.
BUSH, AMELIA LAPHAM	6316 Ridge Ave.
CAPLAN, HARRY NATHANIEL	Baltimore, Md., and 3445 Wilson Ave.
CHANCE, OLIVER GATCH	R. R. No. 1, North Bend, O.
CHRISMAN, IRENE LOUISE	3665 Vine St.
CHRISTOPHER, GORDON NEWTON	Rockville, Conn., and 2164 Gilbert Ave.
CLIPPINGER, RUTH HELEN	4412 Erie Ave.
COOK, ISABELLE RUTH	4229 Brookside Ave.
COOPER, RUTH ANNE	2409 Grandview Ave.
CROUCH, FRANCES ANNETTE	2922 Woodburn Ave.
CURREY, GLADYS MAY	3644 Michigan Ave.
DALZELL, JOHN WASSON	1938 Cleneay Ave., Norwood, O.
DAUGHERTY, FRANK ADAMS	Walton, Ky.
DONOVAN, MARGARET R.	3822 Millsbrae Ave.
DRAPER, LUCY MCCREA	6072 Montgomery Rd.
DRIEHAUS, ELINOR ELIZABETH	4526 Lucerne Ave.
ELBERG, ERMA ENGEL	3340 Elland Circle
ELLIOTT, DAVID CARLIN	2605 Eden Ave.
ELSBACH, FREMONT A.	3049 Cleinview Ave.
EVERSULL, EDNA ETHEL	414 McGregor Ave., Elmwood Place, O.
FERRIS, ELMA VICTORIA	3565 St. Charles Pl.
FESSENDEN, WILLARD BLANEY	4537 Lucerne Ave.
FILLMORE, ANNETTE	4227 Williamson Pl.

FINKELSTEIN, DELLA	Goldsboro, N. C., and 538 Rockdale Ave.
FLANNERY, MARGARET M.	1016 Rittenhouse St.
FOERSTER, FLORENCE ELIZABETH	3423 Lyleburn Pl.
FRIEDMAN, ESTELLE	776 E. Ridgeway Ave.
FULTON, HELEN MARGARET	475 Stanley Ave.
GAU, LUCILLE ADELE	2525 Gilbert Ave.
GAY, CALLIE PREWITT	Winchester, Ky., and 111 Auburn Ave.
GEISLER, SYLVIA BERTHA	463 Riddle Rd.
GHOLSON, WILLA MAY	2316 Symmes St.
GILLESPIE, WILLIAM PEMBROKE	670 June St.
GLAZER, BABE	Seattle, Wash.
GOLDSTEIN, MOSES HERMAN	1502 Central Ave.
GOOD, RALPH	305 W. McMillan St.
GORDON, SAMUEL HENRY	Portland, Ore., and 538 Rockdale Ave.
GREGG, ANNA MYRA	565 Terrace Ave.
GROMME, EDWARD JUSTUS	1832 Brewster Ave.
GUHMAN, HELEN MARIE	240 Hosea Ave.
HALL, WILLIAM DONALD	2210 Ohio Ave., and 3564 Eden Ave.
HAMILTON, MARGARET AGNES	2306 Norwood Ave., Norwood, O.
HARRIS, LOUIS SAMUEL	225 Northern Ave.
HASKILL, HAROLD H.	Amsterdam, N. Y., and 140 W. University Ave.
HAYWARD, DOROTHY	878 Cleveland Ave.
HEINOLD, FREDERICK WILLIAM	2471 McBrayer St.
HEINOLD, WILLIAM FREDERICK	2471 McBrayer St.
HEIS, CHRISTINE CATHERINE	2409 Baltimore Ave.
HELMERS, IRMA KATHRINE	353 Thrall Ave.
HENGSTENBERG, HUGO HERBERT	12 E. St. Clair St.
HERRON, ELEANOR	1216 McMillan St.
HIER, FRANK	4417 Ashland Ave., Norwood, O.
HIRSCH, VIOLA	319 Hearne Ave.
HOEHNE, VIOLA KATHERINE	1714 Hewitt Ave.
HOFFMAN, HAROLD LA TATE	242 Hosea Ave.
HOFFMAN, HELEN ELIZABETH	417 Warren Ave.
HUFF, DOROTHY MARIE	3560 Monteith Ave.
HUMMEL, ALINE MARGARET	2819 Harrison Ave.
IBER, FRANK	1739 Elmore St.
IRWIN, CLARENCE BERTRAND	6405 Roe St.
JENNINGS, CHARLOTTE MARGARET	650 Crescent Ave.
JOHNEN, LOUIS JOHN	1743 Sycamore St.
JOHNSTONE, ROBERTA ALEXANDER	2526 May St.
JONES, JOHN BOLLING, JR.	Petersburg, Va., and 2437 Clifton Ave.
KENNEDY, EDWARD DAVID	960 Nassau St.
KINDEL, DANIEL JOSEPH	909 Dayton St.
KINGERY, WILLIAM RAY [ELA]	1943 Fairfax Ave.
KIRKPATRICK, JOHN KENNETH	Cambridge, O., and 2048 Auburn Ave.
KLEINER, CLARA	1029 Wesley Ave.
KNIGHT, HARRY W.	Madiera, O., and 5825 Glenview Ave.
KOPPENHOEFFER, HAZEL LOUISE	3417 Warsaw Ave.
KOTTE, ROBERT HENRY	223 McCormick Pl.
KRAPP, RUTH LIZETTE	2012 Burnet Ave.
KREIMER, EMMA LOUISE	3407 Cornell Pl.
KROENCKE, EDWARD JOSEPH	1906 Hopkins Ave., Norwood, O.
KRONMAN, HARRY LINCOLN	New York City and 3590 Eden Ave.
LAMPE, JUNE	Washington Court House, O., and 141 W. McMillan St.
LANGE, STANLEY CHARLES	4226 33rd St.
LE TENDRE, BEATRICE MALVINA	672 Rockdale Ave.
LEYLAND, HERBERT THOMPSON [ELA]	Dayton, O., and 2030 Auburn Ave.
LOWENTHAL, RAE GLOSS	733 Central Ave., Newport, Ky.

LUEBBERT, GLADYS MORSE	589 Terrace Ave.
McCLURE, ROBERT BOWEN	919 Chateau Ave.
McGREGOR, RUTH	3525 Shaw Ave.
McINTIRE, WARREN WALLACE	2318 Williams Ave., Norwood, O.
MACHLE, WILLARD FRANK	1 Harvey Apts.
MAGLY, HELEN MARGARET	2520 Woodburn Ave.
MAGRISH, JAMES	1638 Chase Ave.
MARTIN, GLADYS	256 Calhoun St.
MERRELL, DONALD	3595 Wilson Ave.
MERRY, CHARLOTTE MULALLY	5119 Stewart Pl.
MEYER, EDWARD LEE	143 Wildwood Ave.
MORTON, LENA BEATRICE	616 Barr St.
MOSKOWITZ, SARAH	853 Windham Ave.
MYERS, ALFARATA	875 Hutchins Ave.
NATHAN, DAVID SOLOMON	338 Erkenbrecker Ave.
NEUFARTH, MARY H.	Mt. Healthy, O.
NEWBURGH, ESTELLE LOTH	549 Carplin Pl.
NEWMAN, PHYLLIS CAROLINE	4811 Winton Rd.
NORTON, HAROLD JACOB	Hope, Ind., and 2048 Auburn Ave.
O'CONNELL, MARY RUTH	627 Hawthorne Ave.
PARKS, CAROLINE ELIZABETH	24 Lakewood Ave.
PARRY, BESS DURRETT	418 Wallace Ave., Covington, Ky.
PERRY, ELEANORE	12 Blue Grass Ave., Ft. Thomas, Ky.
PFLEGER, EDNA	218 Erkenbrecker Ave.
PICHEL, JOSEPH LOTH, JR.	360 Northern Ave.
PIERSON, MARGUERITE ELLEN	4412 Ashland Ave., Norwood, O.
POCHAT, LOUIS CARL	4228 Floral Ave., Norwood, O.
POCHAT, LOUISE	4228 Floral Ave., Norwood, O.
POOLEY, NOLA IRENE	Kingston, Pa., and 19 San Marco Apts.
POOS, GRETCHEN ERNA	445 Riddle Rd.
POWELL, MINERVA ANNA S.	Briar Cliffe, Ft. Thomas, Ky.
PRESSLER, WILMA M.	320 Lyon St.
RANSON, RUSSELL	2208 Greenup St., Covington, Ky.
RAUCH, GORDON LEE	3030 Cleinview Ave.
RHODES, SILAS SAMUEL, JR.	836 Clinton St.
RICH, CARL WEST	1358 Cryer Ave.
RICHARDSON, VIOLA IRENE	2929 Gilbert Ave.
RICHEY, ELIZA DOROTHY	3017 Marshall Ave.
ROBERTS, ELIZABETH ISABELLE	3519 Middleton Ave.
ROEDTER, CHARLOTTE	36 E. Hollister St.
ROSENBAUM, IRWIN SOL	3406 Burnet Ave.
SACHTELEBEN, MARGUERITE	2718 Cleinview Ave.
SAUNDERS, DOROTHY EDITH	1336 Duncan Ave.
SAXE, JOSEPH CHAIM	714 Hopkins St.
SCHEIFFELE, CORINNE ELIZABETH	3519 Mooney Ave.
SCHEIFFELE, MARGARETHA FREDERICA	2344 Chickasaw St.
SCHIFF, LEO	807 W. Ninth St.
SCHLUETER, ELMER ANTHONY [ELA]	Dale and Grover Aves.
SCHMIDT, MILTON HENRY	3122 Harvard Ave.
SCHOSTAK, LOUIS HENRY	538 Rockdale Ave.
SCHROTH, IRVING HENRY	2904 Massachusetts Ave.
SCHWARTZ, BERNARD A.	403 Rockdale Ave.
SCOTT, WYLMER LEON	Milford, O.
SHIELDS, EDWARD HINES	2303 Ashland Ave.
SHUMARD, LUCILE	Milford, O.
SIEGEL, CHARLES MENDALL	735 Columbia St., Newport, Ky.

SMITH, HALL CHARLES	3457 Observatory Pl.
SMITH, PAUL BROWN	Ross, O.
STEINMAN, JULIA MARIE	3323 Epworth Ave.
STEVENS, MARY CHARLOTTE	The Senator Place Apts.
STRICKER, CLIFFORD JOHN	60 E. Clifton Ave.
STUMP, MYRTLE MARIE	Sta. C., Kellogg Ave.
TAYLOR, MARIAN ADELINA	3422 Whitfield Ave.
TEBBENHOFF, FLORENCE I.	1931 Bigelow St.
TEMPLETON, H. D.	Rushville, Ind., and 3350 Burnet Ave.
TOBIN, HELEN ISABEL [ELA]	802 Maple Ave., Newport, Ky.
TOWNSEND, JOHN HARRISON	2420 Jefferson Ave., Norwood, O.
TUCKER, ELIZABETH ESTELLE	3117 Harvard Ave.
TURPIN, VIRGINIA	3661 Heekin Ave.
TURTON, MURREL H.	Lebanon, O., and 4707 Garland, Ave.
ULLAND, RUTH MARGARET	529 Howell Ave.
URICH, MORRIS	Milwaukee, Wis., and 2346 Ohio Ave.
VAN PELT, CYRUS PEARNE	College Hill
VAN PELT, MERRILL BROWN	College Hill
VAN WINKLE, EVA CORWIN	2231 Reading Rd.
VOSS, SYLVIA	3396 Bishop St.
VOSSLER, ALBERT EMIL	2640 W. Sixth St.
WALKER, RAY DONALD	Barnesville, O., and 2344 Clifton Ave.
WASMER, ALICE ELBONORA	1730 Pell Pl.
WATTS, LILLIAN IONA	732 E. Sixth St.
WEINBERGER, EVELYN	867 Hutchins Ave.
WELTE, FRED HARRY	322 W. Seventh St., Newport, Ky.
WERTHEIM, WILLIAM	58 S. Warwick Apts.
WHITAKER, LEE NAOMI	4419 Carnation Ave.
WIKEL, RUTH DOLBY	Apt. A., Betz Pl.
WILEY, RUBY HARRIET	144 W. 27th St., Covington, Ky.
WILSON, SARAH JOSSELYN [ELA]	1027 Wesley Ave.
WINSLOW, JOHN ASKEW	3414 Whitfield Ave.
WITHROW, KATHERINE	1230 Yarmouth Ave.
WYDMAN, BYRON H.	1330 Grace Ave.

Freshmen

ADAMS, CARL BRUNO	2133 Vine St.
APPLEGATE, JULIA LEE	266 Senator Pl.
ARNOLD, JAMES H.	Lebanon, O., and 28 Lakewood Ave.
ARNOLD, LOUIS EDWARD	531 E. Fourth St., Newport, Ky.
ASHBROOK, ROBERT	2 Hedgerow Lane
BACKSMAN, LEO R.	824 Monroe St., Newport, Ky.
BALDRIDGE, WINONA WANDA	2701 Jefferson Ave.
BARNES, HARRY ELLIOTT	5922 Kellogg Ave.
BARNETT, DOROTHY FRENCH	4249 Langland Ave.
BAYLES, GEORGE EDGAR	308 McGregor Ave.
BECK, DOROTHY MCCALL	6300 Kincaid Rd.
BECKELHEIMER, EMERSON	2017 Madison Rd.
BEIDERWELLE, HELEN EMMA	2537 Homestead Pl.
BENUS, FRANK ALONZA	360 Resor Ave.
BENNETT, ISABEL WARFIELD	Richmond, Ky., and 111 E. Auburn Ave.
BESUNER, PEARL	214 Hearne Ave.
BEUCLER, MILLARD	4202 Delaney Ave.
BEUTEL, LESTER	224 E. Clifton Ave.
BITTER, CHARLES RAYMOND	Jewish Hospital

BLAIR, MARY ISABELLE	3604 Vine St.
BLAND, WILLIAM LEE	1319 Cryer Ave.
BOEBINGER, MIRIAM JAY	2521 Ritchie Ave.
BORRERSON, ESTELLA JOSEPHINE	4711 Burnet Ave., St. Bernard, O.
BOWEN, JOSEPH ANDREW	25 E. Second St., Newport, Ky.
BRADLEY, NELSON EDGAR	272 McCormick Pl.
BRETTON, MAX	521 Ridgeway Ave.
BRIGGS, DOROTHY HOLMES	Toledo, O., and 3892 Clifton Ave.
BROOKS, RAYMOND STADJE	2876 Romana Pl.
BROTHERS, RICHARD MAURICE	136 E. 5th St., Newport, Ky.
BROWN, ERVIN	136 Wentworth and Bishop Sts.
BROWNING, ALLEN COWEN	6230 Robison Rd.
BRUENING, HAROLD	1733 Chase Ave.
BUDKE, HELEN MARIE	3819 Carrie Ave.
BURK, HAZEL CORENE	742 Hawthorne Ave.
CHABOT, GEORGIA	2559 Fairview Ave.
CHARNI, ARTHUR LOWE	Brookville, Ind., and 2617 University Court
CHISHOLM, DAVID BRENNEMAN	4603 Glenshade Ave.
CLARK, MARY MARGARET	4314 Floral Ave., Norwood, O.
COCREL, WILLIAM ARTHUR	6205 Desmond St.
COHEN, MAURICE BERNARD	538 Rockdale Ave.
COLDEWEY, HELEN ELISE	272 McCormick Pl.
COLSON, DOROTHY ELOYSE	218 Fairfield Ave., Bellevue, Ky.
COLYER, ELSIE GLADYS	1490 State Ave.
CONRAD, HOWARD	665 S. Main St., Dayton, O.
COOLEY, FRANK EARL, JR.	4726 Stewart Pl.
CORNELL, JOSIAH HART	3783 Lueders Ave.
CORWIN, SUSAN VAN DUZEN	Beech and Leslie Ave., Norwood, O.
COURTNEY, GLADYS ANNETTE	2461 Madison Rd.
COWDREY, GEORGE CLAIR	1810 Young St.
CRANE, JOSEPHINE EVERETTE	211 W. 71st St.
CREAGHEAD, ROBERT MURNAN	Ft. Mitchell Heights, Covington, Ky.
CRYER, FRANK JOHN	2867 Observatory Ave.
DAIL, HELEN CAROLYN	202 Greendale Ave.
DAVIS, LAWRENCE HUTSLAR	Springfield, O., and 255 McCormick Pl.
DAY, DOROTHY M.	Knorr and Bickel Aves.
DECAMP, CORINNE	259 Kearney St.
DECHANT, ROBERT SMITH	Lebanon, O., and 7 N. Warwick Apts.
DEETER, DON FAVORITE	North Bend and Banning Rd.
DIEM, HENRY MUHLHAUSER	568 Evanswood Pl.
DODGE, FREDERIC WALLACE	General Hospital
DOLLE, ANITA ROSE	Colerain Pike, Mt. Airy
DONNELLY, MARGARET ANN	3339 Elland Circle
DOWNER, MILDRED MARY	3722 Woodland Ave.
DUCKWORTH, HELEN E. A.	126 Ft. Thomas Ave., Ft. Thomas, Ky.
DULANEY, MALCOLM ELBERT	2719 Willard Ave.
DUNCAN, DOROTHY VIRGINIA	4626 Winona Terrace
DUNHAM, RICHARD EDWARD	1917 Williams Ave., Norwood, O.
EASTMAN, RICHARDSON KENFIELD	4602 Simpson Ave.
ECKERT, WALTER JOHN	3736 Highpoint Ave.
EDWARDS, GLADYS LORAYN	15 Ft. Thomas Ave., Ft. Thomas, Ky.
EDWARDS, SADIE FULLER	15 Ft. Thomas Ave., Ft. Thomas, Ky.
ELSBACH, EDNA	3049 Cleinview Ave.
ELSTUN, GENEVIEVE JANICK	3537 Burch Ave.
ELY, FORREST EDWIN	Batavia, O.
EMIG, KATHERINE ALICE	32 Conklin St.

EMMERT, GEORGIA MAE	4311 Normandy Ave.
ENGLISH, JOHN ELMER	Walton, Ky.
ERNST, ALBERT EDWARD	1714 Vine St.
EVANS, BEATRICE KAHLER	180 Woolper Ave.
FARBACH, MARION ELIZABETH	167 Woolper Ave.
FAULHABER, DOROTHY MARY	443 E. Third St.
FELL, ALICE	1434 Pullan Ave.
FELL, ESTELLE MARY	1434 Pullan Ave.
FIALCO, HYMAN P.	425 Betts St.
FILLMORE, HANNAH LOCKWOOD	Terrace Park, O.
FINEBERG, HOWARD	3590 Eden Ave.
FINKE, MARY ELIZABETH	419 Resor Ave.
FINKELSTEIN, ISADORE EVERETT	255 McCormick Pl.
FLEISCHER, ROSALIND E.	839 Lexington Ave.
FORBES, MARY	612 Linden Ave., Newport, Ky.
FRIDMAN, RUTH	3587 Bogart Ave.
FRY, CLARINE	3030 Observatory Rd.
GABE, HOWARD	2061 Mills Ave., Norwood, O.
GAMFFER, NELSON MESSNER	3021 Griest Ave.
GARDNER, HERALD GILBERT	501 E. Third St.
GARVER, WESLEY WENDELL	4835 Sheffield Ave.
GELDRICH, PAUL WALTER	6038 Montgomery Rd.
GERDING, LAURA C.	1026 Central Ave., Newport, Ky.
GILLIS, KATHRYN MELISSA	1305 Locust St.
GOOD, JOSEPH MARTIN, JR.	5737 Hamilton Ave.
GORDON, J. N. CURRY	18 E. 4th St., Covington, Ky.
GRADOLF, DOROTHY	3783 Millsbrae Ave.
GRAF, MARTHA	885 Clinton Springs Ave.
GRANT, RUTH ELECTA	3618 Woodford Rd.
GRAVER, HARLAND EVERETT	3705 Lueders Ave.
GREENWALD, HYMAN TUPPER	3408 Burnet Ave.
GRIFFITH, JOSEPHINE CASTLE	35 E. McMillan St.
HALL, ALFRED JEROME	2713 Alms Pl.
HALL, MARGARET ELIZABETH	Seymour, Ind., and 621 Riddle Rd.
HAMBRICK, LUCILE	2624 Eden Ave.
HAWK, WILLIAM MCCLURE	Harrison, O., and 4044 Runnymede Ave.
HELMBOLD, AUGUST FREDERICK W.	718 Columbia St., Newport, Ky.
HENKE, MARIE MAGDALENE	Mt. Holly, O., and Clinton and Baymiller Sts.
HENSLE, HARRIETT HELEN	921 Clark St.
HERIER, EMMA	Glenway Ave. and Gurley Rd.
HESS, ELMER LOUIS	4129 Carter St., Norwood, O.
HIGGINS, RUTH MARGARET [ELA]	2704 Eden Ave.
HOFFMAN, ANNA LOUISE	1608 Madison Ave., Covington, Ky.
HOFFMAN, HELEN LOUISE	3936 Ivanhoe Ave., Norwood, O.
HOLBROCK, ADRIAN W.	Hamilton, O., and 8 The Roanoke
HOLDT, GEORGE [ELA]	Rugby Rd., College Hill
HOPKINS, ROBERT GRAY [ELA]	77 W. McMillan St.
HUETHER, WALTER WILLIAM [ELA]	2918 Jefferson Ave.
HULTZ, RAYMOND FREEMAN	Withamsville, O.
HUNTER, DOROTHY MCKENZIE	3112 Fairfield Ave.
HUSSEY, MILLARD EDMUND	Sidney, O., and 435 Pioneer St.
ISAACS, ASHER	Delaware and Kasota Aves.
JEMISON, MARY RUTH	2326 Auburn Ave.
JENSEN, HAROLD CHARLES	3156 Niles Ave.
KARLINSKY, BEN	3243 Fairfield Ave.
KEATING, SARAH VIRGINIA	3588 Outlook Ave.

KECK, VIRGINIA ADELE	891 Lexington Ave.
KELLEY, ANDRA M.	Salem, W. Va., and 46 Lakewood Ave.
KESLAR, LEE B.	712 Maple Ave., Newport, Ky.
KEYLER, FRANCES HARRIET	2895 Minot Ave.
KOCH, FRANK ACHERT	2403 Highland Ave.
KOEHLER, FREDERICK	315 Center St., Bellevue, Ky.
KRAMER, MARY VIRGINIA	1055 Wiltach St.
KRIEGER, FANNIE ELEANOR	4804 Whetsel Ave.
KUHLMAN, WALTER HENRY W.	2356 Chickasaw St.
KUNTZ, VERA EMMA	1141 Hershell Ave.
KUNZ, WALTER BRAMBLE	3423 Knott Ave.
LAMBKINS, KATHERINE VIVIAN	414 Park St.
LANGSAM, CHARLES BENJAMIN	Lorain, O., and 2461 Fairview Ave.
LAUTERBACH, ETHEL	826 Hutchins Ave.
LAY, PAUL ADKINS	3810 Millsbrae Ave.
LAYNE, PORTER CAMPBELL, JR.	Ashland, Ky., and 443 Riddle Rd
LEARY, JEREMIAH ARTHUR	2600 Observatory Ave.
LECHE, MARIAN SMITH	24 E. 13th St.
LEMING, GEORGIA	Sta. C.
LETENDRE, ODEVINA CECELIA	672 Rockdale Ave.
LEVINE, MAURICE	828 Cleveland Ave.
LEVINE, TILLIE	913 Blair Ave.
LISTERMAN, DOROTHY ELOISE	607 E. 9th St., Newport, Ky.
LLOYD, THOMAS SIBLEY	Terrace Park, O.
LOCKE, CHRISTOPHER	2107 St. James Ave.
LOWENTHAL, MAURICE	733 Central Ave., Newport, Ky.
MCCARTHY, WILLIAM DUNLEA	12 Clermont Apts.
MANSS, HELENE BUNTEN	2724 W. McMicken Ave.
MARDIS, CHAUNCEY JULIAN	Lebanon, O.
MARTIN, ROSEMARY	2641 Stanton Ave.
MARVIN, WARREN KING	6169 Ridge Ave.
MATHEWS, GRACE ELIZABETH	Dale Ave., Bond Hill
MAULE, EARL JAMES	4208 Delaney St
MAYER, DOROTHY	641 Crown St.
MEIER, IVY LENORA	Batavia, O., and 911 Marion Ave.
MEIER, ROSA KATHERINE	1773 Powers St.
MERKLE, FLORENCE EDITH	3522 Stettinius Ave.
MERRIMAN, GAYLORD MAISH	607 Main Ave., Elmwood Place, O.
MERRY, CHARLES EDGAR	5119 Stewart Pl.
MERZ, DOROTHY REGENE	Maysville, Ky., and 250 Forest Ave.
METZ, AGNES LOUISE	1631 Race St.
METZ, MURIEL LENORA	1631 Race St.
METZGER, GEORGE	Miami, O., and General Hospital
METZGER, HOWARD EDWARD	354 Thrall Ave.
MICELI, VIRGINIA	527 Laurel St.
MILLER, GORDON BARRETT	3435 Cornell Pl.
MILLER, HAROLD RICHARD	West Carrollton, O., and 2366 Stratford Ave.
MILLER, RELAND	2754 Erie Ave.
MONGER, HERSCHEL HAROLD	1014 Locust St.
MONRO, DOROTHY GRACE	6430 Ridge Ave.
MOORE, GEORGE FRANCIS	38 St. Leger Apts.
MOORE, PAUL D.	3202 Harvey Ave.
MORGAN, BERNICE E.	12 Senator Place Apts.
MOSSET, HELEN BLANCHE	825 Beecher St.
MOTT, GEORGE JOSEPH	1727 Kinney Ave.
MOTZ, LILLIAN	532 Prospect Pl.
NASH, GRACE	505 Melish Ave.

NEWMAN, EDWARD L	4321 Floral Ave., Norwood, O.
NICKERSON, MARY LOUISE	10 Bella Vista Pl.
NILAND, MARIE ROSE	3949 Regent Ave., Norwood, O.
NIPPERT, JAMES GAMBLE	2981 Werk Rd.
NOCKA, JOHN HENRY E.	3619 Vineyard Pl.
NORRIS, HELEN MERCY	3734 Eastern Ave.
NORTON, HERBERT WILFRED	3112 Schubert St.
OBERLY, FRANCIS CLARK	659 Nelson Pl., Newport, Ky.
OXLEY, GEORGE LEONARD	728 W. 7th St.
PADDACK, ALMA	626 Hawthorne Ave.
PARKER, LORETTA	2153 Slane Ave., Norwood, O.
PEASE, ELEANOR BOYD	841 Ridgeway Ave.
PEASLEE, MARIE MARCELLA	1701 Sycamore St.
PICHEL, CHARLES HODGES	233 Goodman St.
POLING, NELLIE MYERS	391 Probasco St.
PORTER, WILLIAM LEE	192 McMillan St.
POYSELL, ROBERT ELY	839 E. Ridgeway Ave.
PRICE, WILLIAM SYLVESTER	Loveland, O.
QUITMAN, CHARLES C.	740 Delta Ave.
RAPER, GLADYS	5512 Main Ave., Pleasant Ridge
REEDER, JOHN	2918 Park Ave.
REPS, DEWEY H.	5340 Madison Rd.
RICHARDSON, ANNIS COOMBS	Ivy Ave., Glendale, O.
RICHARDSON, SIBYLLA GERTRUDE	2632 Kemper Lane
RISSMAN, HENRY AARON	Chicago, Ill., and 335 W. McMillan St.
ROBERTSON, THOMAS ALBERT	1621 Holman Ave., Covington, Ky.
ROETTINGER, PAUL DODSWORTH	2053 Sutton Ave., Mt. Washington
ROGERS, GEORGE WILLIAM	Petersburg, Ky., and 536 Howell Ave.
RODENBURG, WILLIAM HERMAN	1749 Sherman Ave., Norwood, O.
ROMAINE, WILLIAM WORTHINGTON	1923 Eastern Ave.
ROSENBAUM, LEONA MILLER	833 Mitchell Ave.
ROSENBERG, JESSIE	1515 Central Ave.
RUECKERT, GRETA HELEN	2718 Vine St.
SACHS, DOROTHY LILLIAN	877 Blair Ave.
SANDERS, GOLDIE	827 Lexington Ave.
SCHAEFFER, WALTER ERNST	Box 17, Sta. R., Wyoming, O.
SCHIEL, HELEN JANE	3615 Middleton Ave.
SCHIFF, JACOB [CC]	918 Richmond St.
SCHLEITZER, CARL NASH	4518 Whetsel Ave.
SCOTT, NICHOLAS IRWIN	4324 Forest Ave., Norwood, O.
SCHROTH, MARCELLA M	2904 Massachusetts Ave.
SCHWERTMAN, ARTHUR JOHN	1909 Madison Ave., Covington, Ky.
SEGEL, EUGENE	1335 Myrtle Ave.
SEINSHEIMER, FRANK	2 Greenwood Ct.
SELLARDS, HORACE WARWICK	336 E. Sixth St.
SHARER, JOHN LYNDON	20 N. Liberty St., Cumberland, Md.
SHEPPARD, ELIZABETH IOLA	344 Wood Ave.
SHIELDS, PAUL SEWARD	4338 Floral Ave., Norwood, O.
SHIRLEY, HELEN MYRTLE	3035 Marshall Ave.
SHOENBERGER, NANETTE JEAN	222 Greendale Ave.
SHOR, RUBEN	820 Hutchins Ave.
SHRADER, KAROLYN ANN	1911 Bigelow St.
SHUTTLEWORTH, CHARLES JACKSON	Washington, D. C., and 140 W. University Ave.
SILL, ELMER CARLYLE	340 S. Second St., Hamilton, O.
SILVERMAN, ROSALIND ANNE	3 Vernondale Apts.
SIMON, STANLEY DAVID	Paducah, Ky., and 511 Hickory St.
SISSON, MARGARET	2551 Homestead Pl.

SMITH, ANGY ARDATH	4833 Hamilton Ave.
SMITH, DOROTHEA VIOLA	1810 Young St.
SMITH, FORREST WARDELL	3441 Greenlawn Ave.
SMITH, GWYNNEDD	8 Tuxedo Pl.
SMITH, MAMIE JERLDINE	2814 Park Ave.
SNYDER, CORINNE JULIETTE	Liberty, Ind., and 2207 McGregor Pl.
SNYDER, MILDRED FRANCES	6165 Ridge Ave.
SOUTHGATE, BERNARD WRIGHT	1531 Scott St., Covington, Ky.
SPILMAN, EULALIE FEE	3612 Vine St.
STACY, MARY LOUISE	Briar Cliffe, Ft. Thomas, Ky.
STEIN, JUDITH IRENE	746 S. Crescent Ave.
STEIN, SIMON SHEA	521 Ridgeway Ave.
STEINFELD, MILDRED	4304 34th St., Oakley
STEPHAN, CHARLOTTE	3405 Clifton Ave.
STEVENS, WALTER BONFOEY	3627 Edwards Rd.
STIEBEL, LOUISE THEODORA	787 Greenwold Ave.
STRAUS, EVA ANETTE	841 Windham Ave.
STRUBLE, ELLEN JESSUP	3639 Ault Park Rd.
SUNDERMAN, LEONA L.	210 Lyon St.
SUTHERLAND, ALAN MOORE	22 Burns Ave., Wyoming, O.
TAXEY, JOSEPH	335 W. McMillan St.
TEST, STARLEY	General Hospital
TIMMICH, THEODORE FREDERICK	547 Camden Ave.
TINGLEY, ETHEL MILDRED	6104 Navarre Pl.
TURTON, LAWRENCE ELMER	Lebanon, O., and Garland Ave., Linwood
TWITCHELL, HENRY	845 Dayton St.
ULLER, BRUNHILDE	227 Congress Ave.
VIDUYA, MARCELINO TAVARIS	Agoo, La Union, P. I., and 245 McMillan St.
WACHS, WILLIAM CARL	235 Hosea Ave.
WAGER, IMOGENE CONSTANCE	3312 Columbia Ave.
WALLS, JAMES ROBERT	4312 Watterson Ave.
WATSON, EVERETT WILLIAM	715 Adams St., Ironton, O.
WEBER, HELEN LILIAN	4235 Floral Ave., Norwood, O.
WEIDIG, GRACE LEONORA	2234 Williams Ave., Norwood, O.
WEINSTEIN, LEON BURT	3314 Perkins Ave.
WELLER, FRANK JOSEPH [ELA]	328 Boal St.
WENDEL, ARTHUR WILLIAM	142 E. McMicken Ave.
WERNER, ELMER EDGAR	3910 Edgewood Ave.
WHITACRE, HELEN ALENE	3752 Kenilworth Pl.
WIGGER, EDWIN HOWARD	3550 Michigan Ave.
WILLIAMS, EVALYN	2531 Ingleside Pl.
WILLIAMS, JOHN STANBROOK	60 Hollister St.
WILLIAMS, JOSEPH IRWIN	3042 Burnet Ave.
WINSOR, CARLTON WEBB	Grand Rapids, Mich., and 140 W. University Ave.
WISE, IRVIN MILTON [ELA]	3128 Fairfield Ave.
WISEMAN, ELOISE	292 Helen St.
WOLFSTEIN, ISABELLE MARGERY	2741 Observatory Rd.
WOOD, MARGARET ELIZABETH	2523 Bell Pl.
WOSCZEK, MARY LOUISE	3312 Elland Ave.
WRIGHT, GENEVA ALDERETTA	3160 Mozart St.
WRIGHT, KATHERYN ELIZABETH	811 Lincoln Ave.
WYKOFF, RUTH ANNE	19 W. Nixon St.
ZEHLE, EMMA	2538 Hackberry St.

IRREGULAR STUDENTS

ADLER, JEAN RUTH	533 W. Ridgeway Ave.
BAILEY, EUNICE ETHELYN	Nurses' Home, General Hospital
BEJACH, FRANCES ALBERTA	311 Hearne Ave.
DESJARDINS, FANNY LOUISE [ELA]	3430 Brookline Ave.
DOOLEY, ELIZABETH [ELA]	3425 Dury Ave.
GRENELL, WALTER EMANUEL	Dayton, O., and 1401½ Chase Ave.
KAHN, ELIZABETH STIX	3985 Loury Ave.
KITCHEL, RALOH HOUSER	Liberty, Ind.
MACK, DOROTHY HENLEY	853 Lexington Ave.
MOTZ, LUCILLE B.	337 Albany Ave.
PORTER, SUSAN	Nurses' Home, General Hospital
SHIPMAN, MARY ALMOND	2510 Gilbert Ave.
SMITH, STELLA MARGUERITE	6 Mt. Pleasant Ave., Wyoming, O.
WINANS, MRS. LOUISE CHURCH	42 The Alexandria

SPECIAL STUDENTS

AARONSOHN, MICHAEL	Baltimore, Md., and 538 Rockdale Ave.
ALLEN, MARGARET [ELA]	1724 Madison Rd.
BAUR, ALICE ELIZABETH	2626 Highland Ave.
BELMER, ELIZABETH HELEN	1833 Fairmount Ave.
BLOCK, MARGARET LOUISE	3615 Washington Ave.
BOLGER, MARGARET DONAHUE	1531 Lincoln Ave.
BOULARD, MARIE EUGENIE	Paris, France, and 2027 Auburn Ave.
BOYLE, MRS. HOWARD P. [ELA]	3318 Reading Rd.
BROWN, ESTHER OLIVER	4451 Carnation Ave.
CANFIELD, WALTER HAROLD	3340 Bishop St.
CHRISTIAN, EULALIA G.	Savannah, Ga., and Conservatory of Music
CORMIER, ELLEN	Paris, France, and 2027 Auburn Ave.
CORNELIUS, GEORGE FRED	914 York St., Newport, Ky.
DAVIS, MRS. LEILA [ELA]	4940 Madison Rd.
DEMARO, CARRIE E.	3145 W. Eighth St.
DOERLER, MARTHA	523 Hickman Ave.
DURRETT, CHARLES SIMRALL	233 Wallace Ave., Covington, Ky.
EISENDRATH, MAURICE NATHAN	832 Cleveland Ave.
FISHBURN, JOSEPHINE REDMOND	3517 Cornell Pl.
FLYNN, JOSEPH JAMES [ELA]	11th and York Sts., Newport, Ky.
FRED, EDWIN BENJAMIN	Lebanon, O.
FREESE, RALPH	501 E. Third St.
FREIBERG, CAROLINE PRITZ	3576 Alaska Ave.
HALL, MARGARET DE MARIS	911 Rogers Pl.
HATFIELD, LOUISE PATRICIA	400 Wallace Ave., Covington, Ky.
HENNINGS, EMILY WILHELMINA	710 Dixmyth Ave.
HENRY, HARLEY ELMER	2623 Beekman St.
HENSON, JACK WALTER	Richmond, Va., and 1325 Garrard St., Covington, Ky.
HUGHES, MARION EVANS	892 Clinton Springs Ave.
JOHNSTON, MARGARET STERRETT	Glendale, O., and Rugby Rd.
JONES, MRS. RANKIN D.	5548 Dunning Pl.
KRAUPNER, LILLIE ROSE	5335 Tompkins Ave.
KUMLER, ALBERTA	2448 Observatory Rd.
LARUE, JOHN WELLINGTON	2822 Highland Ave.
LEPAGE, GERMAINE MARIE	Reims, France, and 2027 Auburn Ave.
LIPMAN, MRS. ERNESTINE	11 Parkside Apts.

LITTLE, ALENE SEYMOUR	Columbus, O., and 2818 Highland Ave.
LOBITZ, RUTH CAROLYN	2559 Fairview Ave.
LONGNECKER, GLADYS E.	358 Ludlow Ave.
LOVELAND, ANGELINA HALDEMAN	1718 Clayton St.
LUCHAUER, HOLLE	Mt. Healthy, O.
LUERS, MARY RUTH L.	3443 Mooney Ave.
LYFORD, GEORGE	26 The Navarre
MACDONALD, HELEN MAITLAND	Winding Way, Avondale
MCCRANE, MRS. LENORE R. [ELA]	236 Loraine Ave.
McLAREN, JULIA ELEANORA	2138 Madison Rd.
MARQUIS, VANCE PIERCE	4707 Edgewood Ave.
MILLER, HELEN RAE	909 N. Crescent Ave.
MILLER, O. W.	1977 Fairfax Ave.
MORRIS, RUTH EVANS	2207 McGregor Pl.
MUSKAT, ISSER W.	Marietta, O., and 527 Union St.
NEUMARK, MARTHA	236 Rockdale Ave.
ORNSTEIN, HELEN SELMA	837 Windham Ave.
PAGE, WILBER	3079 Kerper Ave.
PERSONS, DOROTHY MCCOLLOM	113 Lyon St.
PHIPPS, MRS. L. F.	The Auburndale
PLAUT, MIRIAM	3547 Bogart St.
PRYOR, HARRY JOSEPH [ELA]	433 Main St.
RAY, ROBERTA ESTELLA	1034 Linn St.
REES, SAMUEL HERMAN	318 E. Fourth St.
RUTLEDGE, PAULINE	66 St. Leger
SCHMIDT, CHARLES WILLIAM	2358 Clifton Ave.
SCHNAKE, ELMER RICHARD	905 Central Ave., Newport, Ky.
SCHULTZ, EDWIN E.	4825 Eastern Ave.
SELSEY, EDWIN MAXWELL	3536 Biddle Ave.
SHRADER, FRANCES ELIZABETH	1911 Bigelow St.
SKIRBALL, JACK HAROLD	707 N. Crescent Ave.
SMITH, DOROTHY LOCKWOOD [ELA]	1707 Sycamore St.
STANLEY, ALLISON FREDERICK	2630 Stanton Ave.
STAYER, BYRON E. [ELA]	Virginia, Minn., and 3330 Jefferson Av.
STEIN, SUSAN	521 Ridgeway Ave.
STEWART, MARJORIE [ELA]	2918 Urwiler Ave.
STIX, RUTH ELIZABETH	751 Greenwood Ave.
STRAUS, ROSE G.	968 Burton Ave.
STUTZ, MARJORIE GRAFTON	3436 Lyleburn Pl.
SUYDAM, ELIZABETH SEYMOUR	Wold and Dexter Aves.
TASHMAN, REBECCA SHARON	1647 Clayton St.
TIETIG, MARJORIE	427 Rockdale Ave.
UPHAM, EMERIN COCHRAN	266 Senator Pl.
VAIL, CHARLOTTE FERRELL	1950 Madison Rd.
WALL, JEANETTE STEARNS	266 Senator Pl.
WATERS, MRS. SILAS BARRETT	Edgecliff Rd.
WILLIAMS, CLARA ANNA	2 Dexter Pl.
WILLIAMS, LOUISE CAPPEL	2 Dexter Pl.
WILSON, RUTH CHESELDINE	Garden Pl., E. Walnut Hills
WYATT, MRS. ALICE W.	431 Springfield Pike, Wyoming, O.

UNCLASSIFIED STUDENTS

BIGLER, ELBERTA	3655 Middleton Ave.
BROWDER, OMALEE CLARA	4809 Winona Terrace
CALLAHAN, FLORENCE	966 Hawthorne Ave.

CLEMENT, FANNY MARIE [ELA].....	1017 Poplar St.
CRUMB, PAULINE [ELA]	310 Stites St.
DIECKMAN, ALMA	2243 Spring Grove Ave.
DOBLER, LYDIA THEODORA	2669 Bellevue Ave.
ERMERT, HETTIE C. [ELA].....	8th and Overton Sts., Newport, Ky.
FITZSIMMONS, ALICE MARIE [ELA].....	234 W. Ninth St., Newport, Ky.
FOSTER, ADDIE BELLE	910 Mound St.
FOSTER, RUTH S.	910 Mound St.
FOY, MARY [ELA]	2917 Eastern Ave.
FREEMAN, STELLA MAE [ELA].....	2630 Stanton Ave.
GEIGER, RUTH MARIE [ELA].....	2942 Wardall Ave.
GOODE, LUELLA SARA	166 W. McMillan St.
HAFT, GEORGIETTA [ELA].....	52 E. Millan St.
HAUCK, HELEN CONSTANCE [ELA]	1820 Brewster Ave.
HELMAN, MABEL ROCKWOOD	850 Blair Ave.
HELMAN, RUTH LEONARD	850 Blair Ave.
HIBBARD, LAURA	15 The Madrid
HOFER, WILLIAM FREDERICK [ELA].....	3590 Eden Ave.
KELLEY, ALICE [ELA]	2305 East Hill Ave.
KESSING, LOUISE ANNA [ELA]	4802 Lower River Rd.
KRUCKEMEYER, ERNA	581 Terrace Ave.
McNELLY, NANABEL	448 Considine Ave.
MINNES, EDWARD EVERETT	804 Millsdale Ave.
MORGAN, MRS. ARTHUR D.	12 Senator Place Apts.
NIEDERMEYER, AMELIA C. [ELA].....	920 Grand Ave.
ORR, HAZEL CAMERON	3 Maud Miller Apts.
PFaff, FRIEDA LOUISE	2713 W. Sixth St.
POWELL, MRS. PHOEBE	8128 Woodbine Ave.
REISNER, ARTHUR GUSTAV [ELA].....	3590 Eden Ave.
SCHAEFER, PAULINE	2354 Kemper Lane
SCHIEBERT, MRS. LOUISE M.	8439 Wiswell Ave.
SCHUING, CARRIE [ELA]	1756 Hanfield St.
SCHLOTMAN, ROBERT C.	3443 Pleasant View Ave.
SPOONER, BEATRICE	Glendale, O.
SUTER, MAUD [ELA]	3 Maud Miller Apts.
VAN WICKLER, HELEN	314 Main St., Dayton, Ky.
WALKE, NELSON SUMTER [ELA]	339 Calhoun St.

ENTERED SECOND SEMESTER

REGULAR STUDENTS

Juniors

DARROW, VIRGINIA	Virginia Apts., Avondale
GRAFMAN, LOUIS ELLIOTT	348 Forest Ave.
LANGDON, HENRY HARLAN	2038 Beechmont Ave.
LEWIS, EMILY MARTHA	120 Burns Ave., Wyoming, O.
PEASE, DAVID HARLAN	841 E. Ridgeway Ave.

Sophomores

MENDENHALL, WALTER STEPHEN	952 Marion Ave.
WRIGHT, ELEANOR JAIN	1 Bivouac Place, Ft. Thomas, Ky.

Freshmen

DAMUS, ERIC	216 Dorchester Ave.
HEEKIN, JAMES ROBSON	2500 Auburn Ave.
KEITH, MARY OWENS	Maysville, Ky., and 111 E. Auburn Ave.
PATTENGALL, ROBERT E.	911 John St.
PAULI, HELEN E.	428 Evanswood Pl.
PRATHER, FRED RAMSEY	3136 Willis Ave.
TERRY, DOROTHY	343 Bryant Ave.

SPECIAL STUDENTS

BLOCK, MARJORIE	710 S. Crescent Ave.
BROWN, MARY SULLIVAN [MRS. I. H.]	597 Lowell Ave.
DEKOVEN, SEYMOUR RALPH	528 Rockdale Ave.
FALLON, ZITA	Harvey Ave. and Prospect Pl.
GALLAGHER, JOHANNA	Kaiaua Tolaga Bay, New Zealand, and 1885 Madison Rd.
HANABERGH, FRANK JOHN	45 Grand View Ave., Ft. Thomas, Ky.
JENNINGS, ROBERT EWING	West Milton, O., and Y. M. C. A.
NILES, HELEN BABBITT	Des Moines, Ia., and 58 E. Auburn Ave.
POGUE, FRANCES LAW	243 Greendale Ave.
SOMMER, VIOLET HOLMES	2410 Iowa Ave.
STERN, RUTH GOSLING	835 Glenwood Ave.

EVENING ACADEMIC COURSES

FIRST SEMESTER

IRREGULAR STUDENTS

ABEL, LUDWIG CHRISTIAN	Box 106, North Bend Rd.
APPEL, CLARA MARGARET	4431 Brazee Ave.
ARNOLD, RALPH WILLIAM	3432 Columbia Ave.
AUBURN, HORACE THOMAS	2925 Observatory Rd.
BAMBERGER, AARON ALVIN	1620 Madison Rd.
BANGS, NEIL KENDRICK	Isis Ave., Mt. Lookout
BARG, PEARL BEATRICE	2910 Reading Rd.
BARTON, AMY ESTHER	2318 Chickasaw St.
BARTON, ETHEL DAVIES	2318 Chickasaw St.
BAUM, CLIFFORD	1625 Clarewood Ave.
BEAR, HENRIETTA MOORE	1315 Meier Ave.
BEINERT, IDA HELEN	558 E. Liberty St.
BERGMANN, NORBERT PETER	255 Emming St.
BERNEWITZ, EMMA ANNA	330 Crestline Ave.
BLOOM, ROSE	3416 Laronia Ave.
BOEGLI, CHARLES	3332 Spokane Ave.
BOYD, EDITH MAY	California, O.
BRADFORD, SARAH	641 W. Fourth St.
BRADLEY, WILLIAM, JR.	2917 Park Ave.
BREITENBUECHER, HILDA	1530 Freeman Ave.
BRESTEL, GERTRUDE FLORENCE	327 Straight St.
BRESTEL, RUTH MAGDALENE	327 Straight St.
BUCHER, CLARENCE	2513 Chatham St.
BUCHNER, JULIA ELIZABETH	228 E. Tenth St., Newport, Ky.

BUEHLER, RICHARD JOHN	467 Riddle Rd.
CALLAHAN, MARJORIE C.	966 Hawthorne Ave.
CHAPMAN, WILLIAM PENN	1329 Lincoln Ave.
CLAASSEN, HARRY LOUIS	2723 Scioto St.
COFFIN, ROBERT EDWARD	1032 Russell Ave., Covington, Ky.
COHEN, NELSON JENN	3317 Milton Court
CORDES, BERNARD	6042 Main Ave., Pleasant Ridge
COX, DOROTHY KATHERINE	3330 Woodburn Ave.
DALY, MARY CATHERINE	583 Grand Ave.
DECHARMS, ALICE	1628 Bruce Ave.
DIECKMAN, ELSA PAULINE	2243 Spring Grove Ave.
DOLLE, CHARLES F.	Colerain Pike, Mt. Airy
DRABNER, FRANCES AMELIA	124 E. McMillan St.
ENGLANDER, FRIEDA	1361 Burdette Ave.
EVANS, EDMUND BOYCE	1215 Elgin Pl.
EWALD, ELSA L.	2612 Fenton Ave.
FELDMAN, ERNA M.	1622 Scott St., Covington, Ky.
FELS, GERTRUDE	3121 Imperial St.
FELS, IDA JEANNETTE	3121 Imperial St.
FERGUSON, ANNA LUELLA	267 Avaton Ave., Hartwell
FINE, DORA VERA	512 Clinton St.
FREV, GEORGE JOHN	219 Wade St.
FRIEDMAN, BENNETT	3592 Wilson Ave.
FRTZ, ANNA JANE	526 E. Fourth St.
FRY, LILIAS R.	2260 Adams Ave., Norwood, O.
GATES, ELIZABETH	1314 Michigan Ave.
GLENSMAN, MARTIN ALEXANDER	Kennedy Heights
GOLDBERG, REBECCA	847 Betts St.
GRAD, SARAH BELLE	3441 Knott Ave.
GREVE, THEODORE	530 Maxwelle Ave.
HACKE, WILLY HUGO G.	2011 Dunlap St.
HALL, RALPH WALDO	1360 Myrtle Ave.
HALL, VIOLA	3811 Floral Ave., Norwood, O.
HARRISON, ALICE A.	825 Maple Ave., Newport, Ky.
HELLEKAMP, ROSA MARY	613 Church St.
HERMAN, EDNA	321 Overton St., Newport, Ky.
HERMAN, JEANNETTE	46 Haddon Hall
HINNENKAMP, ALICE HELENA	1823 Chase Ave.
HOLLMAN, DOROTHY MCKINLEY	114 W. Seventieth St.
HODGE, RAYMOND	1380 Myrtle Ave.
JANSZEN, LILLIAN HELEN	916 Grand Ave.
JOERLING, ARTHUR	2331 Flora St.
KAIPER, S. EVERET	1006 Lenox Pl.
KATKER, WILLIAM CORTMAN	3229 Glendora Ave.
KENNEDY, NORA ELY	3229 Montgomery Rd.
KERSTING, EMMA SOPHIA	3926 Dickson Ave.
KINKER, OLIVIA JOSEPHINE	3567 Paxton Rd.
KIPP, JOHN FRED	2426 Fairview Ave.
KISINGER, MARGUERITE GENOWAY	5822 Wyatt Ave.
KITTENACKER, MRS. ANTOINETTE WILOS	2232 Shadwell St.
KLEIN, J. EARL	5524 Herbert Ave.
KLEIN, JULIA ROSE	2372 Stratford Ave.
KOENIGKRAMER, LILIAN WILHELMINE	2903 Kling Ave.
KROGER, LORETTA ALICE	3511 Bevis Ave.

LEEN, MARCELLA MARIE	4017 Catherine Ave.
LEHENBAUER, MARTHA HOMAN	212 Calhoun St.
LIEBENROOD, WILLIAM FRANCIS	2422 Auburn Ave.
LIEBING, FR EDA	3503 Trimble Ave.
LIPPELMAN, BERTHA VAN NES	Fountain Ave., Glendale, O.
MCGREGOR, HILDA MARGARET	2157 Sinton Ave.
MAGRISH, SARAH	1638 Bruce Ave.
MEYER, EDITH AGNES	435 Hawthorne Ave.
MEYER, FLORENCE RUTH	216 Calhoun St.
MEYERS, MARY ELIZABETH	1329 Locust Hills
MILLER, CLYDE VERNON	1506 Blair Ave.
MILLER, EDWARD FRANKLIN	41 E. McMillan St.
MILLER, ESTHER LOU SE	1705 Westwood Ave.
MOORE, GEORGE H.	2236 Kemper Lane
MOORE, MAUDE KATHERINE	4266 Langland St.
MUELLER, ELEANOR CARRIE	425 Ward Ave., Nellovue, Ky.
MUSSMAN, ELSIE LILLIAN	1927 Bigelow St.
NAISH, SYLVIA MARIE	728 Clark St.
NEDDERMANN, JONN LUDWIG	3119 Durbin Pl.
NUTE, MARY LOUISE	2251 Buxton Ave., Norwood, O.
OTTEN, FRED A	3016 Scioto St.
PARKER, CHARLES STANTON	2211 Kemper Lane
PARKER, JESSIE ELIZABETH	645 Linden Ave., Newport, Ky.
PARROTT, OLIVE ELAINE	338 Milton St.
PARRY, EDWIN ARTHUR	758 Wayne St.
PEABODY, NETTIE	1810 Young St.
PEASE, JAMES LEWIS	2153 Fulton Ave.
PEASE, MARY RIEMAN	2153 Fulton Ave.
PIDGEON, BERTHA MABEL	3522 Stacey Ave.
POOLEY, MARY HELEN	19 San Marco Apts.
POTTENGER, ELLA	3323 Orion Ave.
PROCTOR, LELAND MANNING.....	8334 Anthony Wayne Ave.
RABB, FRANCES	1826 Kinney Ave.
RADKE, ARTHUR	2417 Fairview Ave.
RANDALL, NORMAN	8384 Wiswell Ave.
RANEY, CARRIE EMMA B.	Twenty-first and Lindsay Sts., Newport, Ky.
RAUM, CLARA MARGARET	321 Albany Ave.
RIETH, SUSIE ESTELLE	1659 Herbert Ave.
ROBERTS, LAURETTA ELIZABETH	2406 May St.
SCHUEVERMAN, ALFRED A.	2931 Jefferson Ave.
SCHREIBER, DAVID BENJAMIN	819 W. Court St.
SCHWARTZ, FLORENCE JOSEPHINE	6216 Chandler St.
SCHWEIKERT, MABEL	725 York St., Newport, Ky.
SEBASTIAN, JOHN CHRISTOPHER	2346 Auburn Ave.
SEILKOP, EILEEN	2932 Minot Ave.
SECREST, FRANCES LOUISE	215 Gilman St.
SELBERT, FRIDA FOERSTER	416 Hawthorne Ave.
SHOOK, CHESTER RINEHART	North Bend Rd., Mt. Airy
SIEREVELD, LOUISE	568 Terrace Ave.
SLUTSKY, DORA	3 Le Roy Court
SMITH, LUELLA CAROLINE	Nurses' Home, General Hospital
SMITH, LILLIAN MARIE	3746 Applegate Ave.
SPEAR, ALICE BLANCHE	425 Riddle Rd.
SPORING, EDWARD FRANKLIN	Newport, Ky.
STERN, BERNICE	46 Haddon Hall

STICKLER, RUTH	237 Northern Ave.
STRAUSS, HELEN LOUISE	10 Cumberland Apts.
STRICKER, ELIZABETH	2468 Paris St.
SULLIVAN, IRENE HARRIS	3427 Whitfield Ave.
TODD, JOHN CRUGAR	4920 Stewart Pl.
TRAVER, FLORENCE	312 W. Ninth St.
TUCKER, EVELYN CAROLINE	1914 Hopkins Ave., Norwood, O.
UPSON, WILLARD IRVIN	8266 Woodbine Ave.
VAN FRANK, MABEL M.	2595 Eastern Ave.
WAIN, MATTIE R.	21 The Alexandra
WARREN, RUTH MARION	630 E. Third St., Newport, Ky.
WEBB, LUELLA	33 The Clermont
WHITE, JOSEPH HARLAN	3615 Woodbridge Pl.
WIEDERHOLDT, DELLA EMMELINE	713 Neave St.
YALEN, CLARA	2253 Spring Grove Ave.
YOST, JOSEPHINE LEE	41 E. McMillan St.
YOUNG, ELSIE LAVINE	Branch Hospital
ZETTL, CARL HENRY	3556 Wilson Ave.
ZINSER, ESTHER MARY	3521 Michigan Ave.

SPECIAL STUDENTS

ADAMS, MARY CECILIA	2837 Observatory Rd.
ADLER, SHERMAN HENRY	Alameda Apts.
ALBERT, HELEN SELMA	921 Laurel St.
ALLEN, ROBERTA	111 Wallace Ave., Covington, Ky.
ANDERS, HAZEL MILDRED	3059 Feltz Ave.
ARCHER, MIRANDA MOORE	3509 Stacey Ave.
AUE, LINDA MATHILDA	2743 W. Sixth St.
AUSTERLITZ, EMANUEL HARRY	347 Forest Ave.
AWREY, MINNIE B.	2525 Gilbert Ave.
BACHRACH, MIRIAM	2916 Burnet Ave.
BARINSEATHER, JOHN ALPHONSE	39 Calhoun St.
BANKER, ETHEL	574 Terrace Ave.
BARNES, EDITH GENEVIEVE	1602 Mansfield St.
BAUMES, JANET HAYWARD	5858 Wyatt Ave.
BAUMGART, WILLIAM CARL	845 W. Fifth St.
BAXTER, BESSIE SOMMERS	2068 Lawrence Ave., Norwood, O.
BELL, CLARENCE WILBUR	4007 Burwood Ave., Norwood, O.
BELLVILLE, LAURA MAY	4225 Grove Ave., Norwood, O.
BENEDICT, MARGARET H.	1325 Yarmouth Ave.
BENNETT, OMER HIBBEN	3822 Davis Ave.
BENNETT, THOMAS TELFORD	3830 Davis Ave.
BERGMAYER, GRETCHEN LOUISE	305 Sixth Ave., Dayton, Ky.
BERNSTEIN, HERBERT B.	3434 Burnet Ave.
BIELEN, FLORA	209 Hearne Ave.
BINGEL, ELLA	124 Lyon St.
BIRK, HATTIE MARGARET	2110 Division Ave.
BLAIR, LENA JEAN	Third and Lytle Sts.
BLUM, KATHERINE CLARA	Luckey Ave.
BOBBITT, JANE ELEANOR	1027 Wesley Ave.
BOEGLI, MRS. CHARLES	3332 Spokane Ave.
BOETTGER, CARL WILLIAM	2539 Vestry Ave.

BOHAMION, MRS. NELL C.	511 Hickman St.
BOYD, EMMA AUGUSTA	2876 Montana Ave.
BOYLE, EARL	223 Bosle St.
BRACKETT, ALICE MAY	506 Mt. Hope Rd.
BREEDING, CARL LEO	4803 Morse St.
BRETSCHER, THEODORE A.	6211 Prentice St.
BRIDGE, AGNES HILL	1325 Yarmouth Ave.
BRILL, WALTER HENRY	2215 Washington Ave., Norwood, O.
BROWN, CHARLES HENRY	3002 Gilbert Ave.
BROWN, MARY ELIZABETH	Third and Lytle Sts.
BROWN, NELLIE	Hewitt and Hackberry Sts.
BROWN, PRISCILLA DENISE	316 Oak St.
BRUCK, FRED	4323 Brownway Ave.
BRUCKMAN, MYRTLE AUGUSTA	2582 Irving Ave., Norwood, O.
BRUEGEMAN, EDWARD	1308 Republic St.
BRUESTLE, HENRY M.	432 W. McMicken Ave.
BRUNST, MRS. EMMA LOUISE	3030 Feltz Ave.
BUCHANAN, ERNEST JOSEPH	2441 Ohio Ave.
BUNTAIN, ANNE	2630 Stanton Ave.
BURRIS, GRACE	1005 Washington Ave., Newport, Ky.
BUTLER, NELLIE WILSON	2919 Eden Ave.
BUXTON, ANNABEL	715 Worthington Ave., Lockland, O.
BYRNE, RICHARD WILLIAM	2812 Melrose Ave.
CAIN, HELEN MARIE	4311 Carthage Ave.
CAMPTON, HELEN HOPE	1611 Hoffner St.
CARROLL, KATHRYN F.	531 Carmalt St.
CARSON, MILDRED	2442 Highland Ave.
CAVEN, ALICE ELIZABETH	4419 Erie Ave.
CHADWICK, FRED WALTER, JR.	Lane Theological Seminary
CHESELDINE, MARTHA PHELPS	Hotel Alms
CHRIST, WILLIAM JULIUS	3711 Oakley Ave.
CHRISTIAN, ANNE FOLLETT	814 Vine St., Dayton, Ky.
CHUMARD, GEORGE, JR.	1037 Linn St.
CLAASSEN, ELLA	2723 Scioto St.
CLARK, JANE ROOT	2634 Alms Pl.
CLAY, DRUCILLA	754 Richmond St.
COHEN, ZELDA	743 Mt. Hope Rd.
COLE, DOROTHY WARDELL	936 York St.
COLLINS, HARRIET LOUISE	1930 Bigelow St.
COLLORD, EDWIN ROBSON	Mt. Washington
CONNER, MINERVA WILLARD	3242 Gilbert Ave.
COPELAND, THELMA LEE	215 Lindsey St., Dayton, Ky.
CORWIN, BENJAMIN CLAY	Beech and Leslie Ave., Norwood, O.
COSBEY, JESSIE INEZ	2614 Stratford Ave.
COX, JENNIE ISABEL	852 Oak St.
DACY, IVA ESTELLA	5123 Glenshade Ave.
DAVIS, BEULAH GLADYS	2130 St. James Ave.
DAVIS, SAMUEL SPENCER	4228 Brookside Ave.
DEITERMAN, HARRY JOSEPH	2270 Vine St.
DIETRICH, MARY CATHARINE	3652 Michigan Ave.
DILL, HELEN BELLE	1027 Wesley Ave.
DIXON, BLANCHE ROSELYN	New Richmond, O.
DODS, NELLIE	6001 Kennedy Ave.
DOLLE, EUGENIA MARY	141 W. McMillan St.
DONAT, AUGUSTA ANNA	2937 Gerard St.
DRAGESER, GEORGE	437 Melish Ave.

EGGENBERGER, DAVID PHILIP	2117 Sinton Ave.
EISENDRATH, JULIET	832 Cleveland Ave.
EVANS, JOHN C., JR.	3612 Zumstein Ave.
FAHLBUSH, KATHERINE AUGUSTA	943 Columbia St., Newport, Ky.
FELL, BLANCHE MARGARET	1434 Pullan Ave.
FENDER, FLORA SOPHIA	18 W. Tenth St., Newport, Ky.
FENTON, IRMA F.	3539 Shaw Ave.
FESSLER, MARTHA LOUISE	420 Ada St.
FINN, LILLIE	2631 Vine St.
FISHER, ETHEL LAURA	3827 North Bend Rd.
FISHER, HERMAN W.	1066 Central Ave.
FORBES, ELIZABETH	3541 Burch Ave.
FORD, GERTRUDE	3577 Clifton Ave.
FRANK, MAE VICTORIA	1712 Vine St.
FRAZIER, KATE M.	1027 Wesley Ave.
FREDERICKS, ELEANOR M.	2034 Reading Rd.
FREEMAN, ETHEL GRACE	Christ Hospital
FRIDMAN, GLADYS	3587 Bogart Ave.
FULKERSON, NANNIE	817 Richmond St.
FULNER, BERNICE EMMA	925 Columbia St., Newport, Ky.
GAENGE, EDGAR GEORGE	4038 Taylor Ave.
GALLAGHER, AMBROSE S.	Central Y. M. C. A.
GAMBS, HERMAN DEWEY	1432 Cedar Ave.
GANZERT, ELSA CAROLYN	3447 Hudson Ave.
GANZERT, HAZEL CATHERINE	3447 Hudson Ave.
GEOGHEGAN, MARIE	853 Beecher St.
GERDSEN, NORMA OTILLIE	2355 Wheeler St.
GERLACH, FRANK ANDREW	3600 Newton Ave.
GIBSON, ELLEN CHRISTINA	706 Saratoga St., Newport, Ky.
GIDDINGS, PAULINE	760 S. Crescent Ave.
GOETZEL, HELEN	2137 Loth St.
GOODMAN, GERTRUDE HARRIET	3441 Hallwood Pl.
GOSLINE, FLORENCE	19 Greenwood Court
GRAEBE, HERMAN CHARLES	6229 Aspen Ave.
GRAHAM, HARRIET ROSE	17 E. Ninth St.
GREEN, ORVILLE FLOYD	1803 Young St.
GREGSON, ANITA HULL	3622 Zumstein Ave.
GREGSON, MARIE KERFOOT	3622 Zumstein Ave.
GROSSMAN, IDA	717 Laurel St.
GROVE, RUTH	The Glencoe Hotel
GRUBER, MRS. LILLIAN	2920 Woodside Pl.
GRUBLER, HAROLD FREDERICK	1375 Myrtle Ave.
GUSWEILER, JOSEPH G.	3020 Stanton Ave.
GUSWEILER, LURA BARTHOLOMEW	3020 Stanton Ave.
HAEFNER, MARGARET	3500 Woodburn Ave.
HAFFORD, LILY	1204 Vine St.
HARKNESS, DONNA JOSEPHA	2405 Auburn Ave.
HARRIS, ALICE ALETHE	1525 Gilpin Ave.
HARTMAN, MRS. EDITH TINGLEY	2323 Stratford Ave.
HARTMAN, GEORGE EDGAR	3398 Hillside Ave.
HARTMAN, HELEN MARGARET	4914 Eastern Ave.
HAUCK, EVA LYDIA	935 Dayton St.
HAUCKE, RESILLA	3503 Cheviot Ave.
HAYES, IRENE HARRIET	Sayler Park Sta.
HAYES, KATHERINE D.	Cleves, O.
HEALEY, FRANCIS ROBERT	2918 Woodburn Ave.
HEILE, CYRIL EDWARD	227 Ludlow Ave.

HELMERS, MYRTLE	168 Kinsey Ave.
HENDERSON, WILLIAM DOUGLAS	155 Tallant Ave.
HENLE, MAURICE	3236 Delaware Ave.
HENSEL, EMMA	2250 Schoedinger Ave.
HERBST, EDNA MAE	531 Woodburn Ave.
HERIER, HELEN CATHERINE	Queen City Ave. and Lick Run Rd.
HERMAN, BERTHA CONSTANCE	1611 Haifner St.
HINCKS, ELIZABETH MARY	9 The Roanoke
HINES, THOMAS	636 W. Ninth St.
HODTUM, JOSEPH BERNHARDT	505 Milton St.
HOFFMAN, GERTRUDE	1849 Carll St.
HOFFMAN, MILDRED LOUISA	4614 Sullivan Ave., St. Bernard, O.
HOFFMAN, MINNIE	1729 Carl St.
HOFMANN, OPHELIA LAWRENCE	2836 Reading Rd.
HOLDT, META	Rugby Rd., College Hill
HOLDT, PAUL	Rugby Rd., College Hill
HOLLAND, WILLIAM WEBSTER	1351 Grace Ave.
HOLZBERG, JULIUS	260 Ehrman Ave.
HOUSH, FRANCES RUTH	2920 Gilbert Ave.
HUBER, ALMA MARIE	757 Purcell Ave.
HUBER, OLGA FREDERICA	757 Purcell Ave.
HUGHES, ANNA	2473 Paris St.
HUNSICKER, ELMER FRANKLIN	2367 Clifton Ave.
HUPPERTZ, ESTHER CLARA	2348 Wheeler St.
HUPPERTZ, RUTH BERTHA	2348 Wheeler St.
HUSEMAN, CHARLES JOSEPH	2923 Scioto St.
HYMAN, MINNIE FRIEDA	861 Hutchins Ave.
IMMERMAN, ANNA	221 Albany Ave.
JAMIESON, ELIZABETH	4305 Haight Ave.
JENKINS, GRACE LENORE	839 Washington Ave., Newport, Ky.
JOHNSON, SAM J.	6 E. Sommerfield Apts.
JONES, MARGARETTA ABIGAIL	4349 Erie Ave.
JORDAN, FLOYD	Dennison Hotel
KANDEL, PHOEBE MILLER	General Hospital
KATH, ANNA	413 Southview Ave.
KELLEY, MARCELLA	825 Rockdale Ave.
KEMEN, CHARLES BERNARD	1348 Broadway
KEMP, INEZ SUSIE	2076 Lawrence Ave., Norwood, O.
KENT, HAZEL ELEANOR	716 Wayne St.
KINZBACH, WILLIAM	3232 Hillside Ave.
KLEIN, EMMA ROSE	2518 Cleinview Ave.
KLEIN, RUDOLPH GEORGE	2236 Wheeler St.
KNAPP, AUGUST JOSEPH	2523 Halstead St.
KOLLMORGEN, MARTIN	432 Ada St.
KOPP, CHARLES A.	2312 Ravine St.
KRAFF, CLARENCE GEORGE	5646 Belmont Ave.
KRASNE, IDAH DEE	409 Union St.
KRASNE, SOPHIE	409 Union St.
KRESSEL, HAZEL	1969 Kinney Ave.
KREYENHAGEN, JEANETTE MARIE	239 McGregor Ave.
KROGER, LUELLA	3511 Bevis Ave.
KUCK, LOUISE	2949 Urwiler Ave.
KUHN, IRWIN HENRY	19 Lewis Pl.
KUHN, JOSEPHA FRANCES	General Hospital
KULLER, BERTHA	1255 Dewey Ave.
KYRLACK, FRANK	2742 Madison Rd.
LAMBERT, MARGARET LOUISE	2360 Auburn Ave.

LANDMAN, MARIE REGINE	3024 Junietta Ave.
LANG, HAZEL MARGARET	1712 Vine St.
LANGFELS, LEO FRANK	2373 Rohs St.
LANGSDORF, CLARA MARGARET	3964 Eastern Ave.
LAUGHLIN, JULIA	2509 Ritchie Ave.
LAWTON, RAE	1027 Wesley Ave.
LE COUNT, VERA ADELIA L.	722 Columbia Ave., Newport, Ky.
LEWIS, DOLLIE ELIZABETH	2921 Urwiler Ave.
LINDEMAN, ELSIE	94 Juergens Ave.
LINDENLAUB, ELLA	42 Lakeside Ave.
LITTLE, AGNES FONDA	2130 Sinton Ave.
LOEWE, ELMER JOSEPH	3331 Bishop St.
LOVE, MARTHA SELINA	20 Calhoun St.
LUKE, MRS. A. D.	1810 Young St.
LURIE, MRS. OSNA BERNSTEIN	Virginia Apts., Avondale
MCCABE, MARY JULIA	4218 Brownway Ave.
MCCLANAHAN, CORA MILLER	2106 Sinton Ave.
MCCONNELL, ESTELLA	4707 Edgewood Ave.
MCCONNELL, MILDRED CHANDLER	Deaconess Hospital
MCGINNISS, IDA MARTHA	638 Maple Ave., Newport, Ky.
MCGREW, ANNA N.	3597 Vine St.
McMILLAN, JESSIE	934 Maple Ave., Newport, Ky.
McWETHY, MARGARET TERRILL	18 Norfolk Bldg.
MADDEN, FANNIE MAY	6121 Roe St.
MADDOCK, ELIZABETH LAVELL	1545 Ruth Ave.
MAIENSCHIN, NORMA AMELIA	1506 Elm St.
MANTER, MARIE	724 E. Tenth St., Newport, Ky.
MARKS, ALICE HENRIETTA	1027 Wesley Ave.
MARQUIS, MRS. ELIZABETH LOUISE	4707 Edgewood Ave.
MARTIN, ADA RUSSELL	312 Ludlow Ave.
MARTIN, FLORENCE CLARE	312 Ludlow Ave.
MARTIN, LOUIS FRANK	906 Clinton St.
MARTZ, OSCAR GARY	1825 Mentor Ave., Norwood, O.
MATHEWS, CLARA LOUISA	3011 Marshall Ave.
MAYER, LYDIA CAROLYN	11 E. Eighth St.
MEIGHEN, J. MCK.	1810 Young St.
MEINDERS, PHOEBE ELIZABETH	1026 W. Seventh St.
MEYDER, MINNIE	4235 Florida Ave.
MEYER, FRED J.	1240 Quebec Rd.
MEYER, MARGARET	805 Hutchins Ave.
MILITZ, ELLA Y.	3023 Woodburn Ave.
MILLER, ELIZABETH	4106 Montgomery Blvd.
MILLER, ESTHER MARIE	2108 Ross Ave., Norwood, O.
MILLER, JAMES BENNA	8414 Dixie Ave.
MILLER, MARJORIE JAY	3590 Monteith Ave.
MILLER, VIOLA MILDRED	1630 Western Ave.
MILNER, BLANCHE BLAINE	124 Garfield Pl.
MOELLER, EVELYN	573 Considine Ave.
MOLEUX, HELEN CAMILLE	6215 Erie Ave.
MOLEUX, MARIE	6215 Erie Ave.
MOORE, RUTH CLARKE	4132 Floral Ave., Norwood, O.
MOORMAN, GENEVIEVE MARIE	843 Kirbert Ave.
MORAN, MARY	337 Forest Ave.
MORELAND, JENNIE LOUISE	425 E. Third St.
MORGAN, FREDERIKA HOYT	9 The Somerset
MORGAN, MARGARET	324 Linden Ave., Southgate, Ky.
MOTSCH, EDNA HELEN	57 Mulberry St.

MUCKERHEID, MARIAN	2577 McMicken Ave.
MUELLER, CARL JACOB	1808 Sycamore St.
MUELLER, MILDRED	3506 W. Eighth St.
MURRAY, CHARLES H.	109 S. Main St., Middletown, O.
MYERS, JOHN JACOB	3430 Craig Ave.
NASH, ETHEL CATHERINE	5722 Bramble Ave.
NASH, ELLEN MARY HARRIET	5722 Bramble Ave.
NAYLOR, MARY ROSE	Springfield Pike, Hartwell
NIEDHAMER, HOWARD JOSEPH	3422 Trimble Ave.
NIEHAUS, HENRY ALBERT	46 Kessler Ave.
NORDLOH, PAUL C.	2430 Mound Ave., Norwood, O.
NOWACK, EMILY	2442 Highland Ave.
O'BRIEN, BETTY	1913 Greenup St., Covington, Ky.
O'CONNOR, GEORGE LEO	5 Park Pl.
OGDEN, SARAH FRANCES	730 Scott St., Covington, Ky.
OLLMAN, EMIL JULIUS	5421 Madison Rd.
OPPENHEIMER, BENTON	3626 Alaska Ave.
OPPENHEIMER, MRS. BENTON S.	3626 Alaska Ave.
OSTERBROCK, MRS. ELSIE AMELIA	3031 Marshall Ave.
OTT, BERTHA AGNES	720 Greenwood Ave.
OTTO, MARTHA JULIA	3902 Ivanhoe Ave., Norwood, O.
PANDORF, ARTHUR ERNST	243 Calhoun St.
PARKER, HARRY BEECHER	1412 Pullan Ave.
PARKER, RUBY CLAY	Christ Hospital
PARKS, EDNA INNIS	2414 Norwood Ave., Norwood, O.
PAUL, ELVIRA	3140 Vine St.
PEASE, MRS. CHARLES H.	841 Ridgeway Ave.
PFEIFFER, ETHEL E.	3194 Hillside Ave.
PHELAN, ANN	308 Greenup St., Covington, Ky.
PIERCE, EVELYN MARJORIE	614 Lexington Ave., Newport, Ky.
POINTS, FRANCES HUTCHINSON	2442 Highland Ave.
POLASKY, BESSIE T.	321 Forest Ave.
POLINSKY, BESSIE	858 Blair Ave.
POLLAK, BLANCHE	1504 Republic St.
POLLAK, CLARA	1504 Republic St.
POLSTER, OSCAR FRANK	2549 Fairview Ave.
POPP, MEREDITH M.	5342 Mound Ave.
POSNER, CHARLES	1354 Burdette Ave.
POSNER, JENNIE S.	1354 Burdette Ave.
POSNER, SARAH	1354 Burdette Ave.
POWELL, ADELAIDE EVELYN	1027 Wesley Ave.
PREISZER, MINNIE	2623 Maryland Ave.
PROPER, MRS. BLANCHE	258 Albany Ave.
PUGH, HANNAH	122 Ward Ave., Bellevue, Ky.
PUGH, IDA MAY	5819 Glenview Ave.
PUHLMANN, FRANK PAUL	14 Forest Ave., Ft. Thomas, Ky.
PYNE, LAURA PRICE	Evergreen and Temple Pl., Southgate, Ky.
RABE, LEAH	4224 Dane Ave.
RAFFERTY, EVANGELINE	1027 Wesley Ave.
RAMMELSBURG, VIOLA	34 W. Thirteenth St., Newport, Ky.
REARDON, MARY	2330 May St.
REEDER, ADGELEE SWANSON	1085 Mound St.
RENNER, RUTH CLARA	2453 Clybourn Pl.
RICHARDS, BEATRICE	1234 Myrtle Ave.
RICHMOND, GRACE DARLING	9 Leamington Apts.
RIFFE, KATHLEEN	14 The Elstun Apts.
RIGG, MABEL HILDRETH	852 Lincoln Ave.

ROBERTSON, MEDA FLORENCE	1027 Wesley Ave.
ROMEY, JULIUS	348 Dixmyth Ave.
ROSENDALE, GLADYS SELMA	2323 Flora Ave.
ROWE, ALVIN H.	502 Carplin Pl.
RUBIN, HARRY	3320 Drexel Pl.
RUECKER, LUCILLE	Ludlow, Ky., and 20 E. Eighth St.
RUDIN, LENA	840 Blair Ave.
RUMMEL, MRS. MARGARET	821 E. Ninth St., Newport, Ky.
SALKOVER, ETHEL ANNETTE	3560 Eden Ave.
SAMUELS, SADIE MARGARITE	1736 Baymiller St.
SAUNDERS, IDA MAY	6 Beecher Bldg., Lane Seminary
SCHAEFER, RUDOLF BERNHARD	2941 Eastern Ave.
SCHARSTEIN, FLORENCE DOROTHY	259 McCormick Pl.
SCHARSTEIN, HELEN	259 McCormick Pl.
SCHEUING, MINNA J.	1756 Hanfield St.
SCHIERING, MARGARET	4244 Hamilton Ave.
SCHMEES, CLARA	1748 Queen City Ave.
SCHIFF, HELEN GRACE	844 Betts St.
SCHMIDT, FLORIAN	2712 N. Ravine St.
SCHNEEBECK, HELEN MARGUERITE	2133 Winchell Ave.
SCHNEIDER, JULIA JUDITH	1541 Knowlton St.
SCHNEIDER, ROSA	1541 Knowlton St.
SCHOFIELD, ELMER ALBERT	160 Ward Ave., Bellevue, Ky.
SCHREIBER, JACOB	819 W. Court St.
SCHULTE, BERTHA	133 Walnut St., Southgate, Ky.
SCHWARZ, BERTHA ETHEL	2008 Linn St.
SCHWARTZ, DAVID MILLER	2625 Cleinview Ave.
SCOTT, LORIMER W.	3926 Edwards Rd.
SHANABROOK, ALICE	5530 Orlando Pl.
SHANABROOK, IRA	5530 Orlando Pl.
SHEPARD, AGNES MAY	4225 Grove Ave., S. Norwood, O.
SKILLMAN, MAURICE LANE	37 N. Main St., Mt. Healthy, O.
SMITH, MRS. JOANNA EPPENA	3026 Woodside Pl.
SPECTER, JOSEPHINE	3119 Borrmann Ave.
SPECTOR, BARUCH	3149 Harvey Ave.
SPILLARD, EDNA MEAD	14 Glencoe Hote.
SPINGLER, HERBERT FREDERICK	1214 Sliker Ave.
STAFF, GERTRUDE AMALIE	6314 Rosewood Ave.
STEGNER, ALMA CAROLYN	13 Mt. Pleasant Ave., Ft. Thomas, Ky.
STEINER, EMMA	895 Clinton Springs Ave.
STEPHENSON, RUTH	8357 Curzon Ave.
STEWART, MIGNON	5528 Belmont Ave.
STERNKORB, ALMEDA CATHERINE	4451 Colerain Ave.
STORCK, ALMA A. A.	242 Melish Ave.
STRICKLER, RUTH	237 Northern Ave.
STRUBLE, CLARENCE AUGUSTUS	R. R. No. 14, Mt. Healthy, O.
STRUBLE, SAFFORD H.	3325 Montgomery Rd.
SULLIVAN, FLORENCE CATHERINE	2570 Euclid Ave.
SUNDERMAN, ROSALIE	2503 Beekman St.
SUTER, KAROLINA	2308 Rohs St.
SWEENEY, KATE MARY	3471 Leland Ave.
TAVENDER, OTTILIA K.	19 San Marco Apts.
TAYLOR, HARRY EDWARD	R. F. D. No. 14, Mt. Healthy, O.
TAYLOR, HELEN H.	16 The Roanoke
TEICHMANN, ALMA LENA	2358 Ohio Ave.
TEIPEL, ALBERT HENRY	1788 Elmore St.
THOMPSON, GEORGIANA JANE	4618 Glenshade Ave.

THORNBERRY, ELIZABETH MEELY	4210 Turrill St.
THORNTON, JOHNATHAN MARTIN	Barbados, British West Indies and 1810 Young St.
THURMAN, HENRY	232 Melish Ave.
TRIESCHMAN, ELEANOR	1268 Lick Run Ave.
UFFELMAN, LUCILLE ADA	3428 Glenmore Ave.
UNGER, BERNARD	3018 Hackberry St.
UPSON, CHARLES HAROLD	8266 Woodbine Ave.
VANE, IRMA CLAIRE	2703 Euclid Ave.
VARELMAN, FLORENCE JOANNE	3520 Edwards Rd.
VORDENBERG, CLARA MARY	1024 Purcell Ave.
WALKER, MRS. GRACE ISABELLA	835 State Ave.
WALKER, JAMES PATRICK	114 Anna St., Lockland, O.
WARREN, KATHERINE ESTHER	630 E. Third St., Newport, Ky.
WEBER, EMMA	3635 Middleton Ave.
WEINSTEIN, LILLIAN LIBBIE	3314 Perkins Ave.
WEINGARTNER, LORETTA LOUISE	1040 W. Liberty St.
WEISER, FLORENCE SARAH	1027 Wesley Ave.
WEISHOLD, LOUISE	3843 Herron Ave.
WERST, HENRY	1020 Wesley Ave.
WEST, FRANCES J.	10 E. Third St., Newport, Ky.
WHEELER, JAMES WALTER	2894 Ziegle Ave.
WHITE, ELMER REDDEN	3422 Monteith Ave.
WILKERSON, HELEN	1055 Richwood Ave.
WILLIAMS, ADELAIDE ELIZABETH	334 Ninth Ave., Dayton, Ky.
WILSON, JOHN JAY	Army Post, Ft. Thomas, Ky.
WINGFIELD, SAMUEL GRIFFIN	625½ Rockdale Ave.
WISE, CELIA	1363 Chapel St.
WOLFE, ANNA LEE	10 E. Eighth St., Covington, Ky.
WONDRAK, ANTHONY	441 Klotter Ave.
WULFHORST, FRANK HENRY	3524 Stacey Ave.
WYDMAN, ROBERT S.	1330 Grace Ave.
YOUNG, LAWRENCE EDWARD	1632 Freeman Ave.
ZELIGS, ROSE	820 W. Court St.
ZIEGLER, MRS. JEWELL	488 Crestline Ave.

ENTERED SECOND SEMESTER

BAKER, OLIVER CHARLES	Akron, Ala., and 224 Loraine Ave.
BRONSON, KENELM WINSLOW	57 Hollister St.
BRUNSMAN, MINNIE	3016 Scioto St.
CLARK, WILLIAM ARTHUR	11½ Garfield Pl.
DOGGETT, FORREST JOSEPH	3436 Monteith Ave.
FLAGGE, CHARLOTTE H.	1900 Western Ave.
GILL, WILLIAM DAVIS	U. S. A. Barracks, Ft. Thomas, Ky.
INNES, MARION	Summit Ave. and Price Hill Rd.
JAFFE, STANLEY ALVIN	818 Hutchins Ave.
KAHLE, CLARA ELIZABETH	1046 Intermediate Ave.
LANGDON, ELIZABETH INMAN	4003 Rose Hill Ave.
SAMUELS, LENORE RAUCH	3028 Cleinview Ave.
SCHMID, HERBERT WILLIAM	232 E. Eighth St.
SCHULTE, GROVER CHARLES	1723 Sherman Ave., Norwood, O.
SHAFFER, SUSAN LEWIS	2260 Park Ave.
STUCKENBERG, HENRY MALCOLM	7 The Roanoke
TARVER, MRS. H. M.	4309 Beech Hill Ave.
WEICHOLD, RUTH AMANDA	1718 Hanfield St.

COLLEGE FOR TEACHERS

FIRST SEMESTER

REGULAR STUDENTS

Fifth Year

CORDES, MARGARET LOUISE	1009 Springfield Pike, Wyoming, O.
FLANNERY, HELEN JULIA [ELA]	1016 Rittenhouse St.
HAGEMEYER, HELEN	266 Senator Pl.
HAGEMEYER, MABEL	266 Senator Pl.
HASEMEIER, MARGARET	Epworth and Feltz Aves.
HILDEBRANDT, MARY MARGARET	3573 Columbia Ave.
LIPMAN, MAYER	11 Parkside Apts.
MEEDS, LILLIAN ANNETTA	1309 Burdette Ave.
RAAP, ALICE EDITH	Holland, Mich., and 2489 Paris St.
RAMSEY, ALTA FERN	3617 Bevis Ave.
SCHAEFER, LOUISE AUGUSTA	3467 Brookline Ave.
SETCHEL, MARY FRANCES	5405 Whetsel Ave.
SIMON, META LAURA	457 Considine Ave.
SULLIVAN, ANNA MARIE [ELA]	5638 Abbottsford St.
WATTS, LILYMAE	2546 Homestead Pl.

Seniors

BELSINGER, EMMA MARIE	804 Grand Ave.
BLESCH, EDNA FLETCHER	3326 Bonaparte Ave.
CLARK, JULIA ELIZABETH	3242 Epworth Ave.
GOLDBERG, RUTH	2363 Chickasaw St.
GREGSON, HELENE ESTHERLIN	3622 Zumstein Ave.
HALL, CLEOPATRA CHRISTINE	2713 Alms Pl.
HARTON, MARTHA ELIZABETH	309 Washington Ave., Newport, Ky.
HEINEMAN, ALMA LENORE	3511 Stacey Ave.
HOWARD, EDITH MARIE W.	4327 Dunbar Pl.
HULICK, VIRGINIA IRENE	830 Hutchins Ave.
KERR, ETHEL CAROLYN	5968 Lower River Rd.
KOLITZ, IDA SARA [ELA]	26 Allsion St.
KUSSEL, JEANETTE RUTH	3332 Elland Ave.
LESOURD, MILDRED KATHRYN	1975 Cleneay Ave., Norwood, O.
LINNARD, HELEN	2550 Ingleside Ave.
MCCARTHY, HELEN KATHERINE	1937 Clairon Ave.
MCDONALD, ELIZABETH	3545 Paxton Rd.
MOORE, MARY ELIZABETH	3129 Hackberry St.
NORRIS, RUTH MARIE	3734 Eastern Ave.
PHILLIPS, LOUISE GUILFORD	211 E. 72nd St.
PRING, ESTHER GERTRUDE [ELA]	354 Baum St.
RIES, MARY ANNA	2100 Harrison Ave.
RUTLEDGE, FRANCES ELLEN	66 St. Leger Pl.
SCHRECK, ANITA CHARLOTTE	3019 Jefferson Ave.
SCHROFF, RUTH	2123 Deerfield Pl.
STALL, VERA ADELAIDE	2710 Griffith Ave.
STARK, CECILLE	812 Mitchell Ave.
STOEHR, ROBERTA JOSEPHINE	2309 Highland Ave.
STRIKER, JEANETTE	3603 Zumstein Ave.
VATTER, FLORINE MAGDALEN	2564 Trade St.
WEISS, OLGA LILLIAN	61 S. Warwick Apts.
WHEELDON, BLANCHE NINETTA	3823 Mr. Vernon Ave.
WRIGHT, ARTENIA PAULINE	2141 Burnet Ave.

Juniors

DANIELS, ARLIE MARGARET	2911 Werk Rd.
FALK, FRIEDA	539 W. Eighth St.
GEIS, MYRTLE PRIODE	2624 Eden Ave.
GRIFFITHS, MARY MORSE	2916 Cleinview Ave.
GUARD, LUCY RUTH	Elizabethtown, O., and 621 Riddle Rd.
HABEKOTTE, DOROTHY ELIZABETH	3232 Beresford Ave.
HANAUER, MARJORIE	1881 Taft Rd.
HARRIS, SARAH B.	357 Kilgour St.
HAUCK, PHYLLIS	1820 Brewster Ave.
HUBBARD, MARY ISABELLE	809 Beecher St.
HUENEFELD, MARGARET ELIZABETH	Fourth and Linden Sts., Newport, Ky.
JAFFE, HAZEL LEONA	818 Hutchins Ave.
JOHNSON, FRANCES STONE	The Hotel Gibson
JONES, LELA FRANCES	Frankfort, Ind., and 911 Marion Ave.
KERN, MILDRED	549 Evanswood Pl.
LINDSEY, RUTH ELLA	1352 Grace Ave.
NIEDERHAUSER, WILLARD FRED	2721 Scioto St.
SIEBENTHALER, THECLA BERNE	593 Terrace Ave.
SULLIVAN, FLORENCE MARIE	1368 Myrtle Ave.
WEITKAMP, HELEN	757 McMakin Ave.
WERNER, KATHERINE MAY	3142 Gaff Ave.
WILSON, SUSAN JANE	5863 Wayside Ave., Mt. Washington
YOUNGERMAN, CECILIA	844 Windham Ave.

Second Year

BACHRACH, MINNIE HILDRED	506 Melish Ave.
BAKER, HELEN EVANGELINE	255 Calhoun St.
BAKER, VIRGINIA	8358 Woodbine Ave.
BOUND, ELLEN HAMPTON	2066 Sutton Ave., Mt. Washington
BRITE, HELEN MARIE	3344 Gano St.
BRUNK, CARRIE MARIE	1543 Beacon St., Mt. Washington
BUCHMANN, MARGARET	120 Piedmont St.
CASE, NANNETTE VIRGINIA	36 E. Hollister St.
CURRY, GLADYS	3644 Michigan Ave.
FROMM, JAMES ROSCOE	323 Main St., Hamilton, O.
GAHR, FLORENCE ORMOND	3434 Mooney Ave.
HOFFMAN, MYRTLE EVELYN	1345 Grace Ave.
HUSEMAN, JULIA LOUISE	306 Piedmont St.
JACKMAN, ROSLYN	1316 Locust St.
KASTING, FRIEDA M.	2744 Willard Ave.
KLEIN, ELIZABETH HIGBEE	4704 Simpson Ave.
KROENCKE, ANNA FRIEDA	1906 Hopkins Ave., Norwood, O.
LLOYD, CICELY BURT	Terrace Park, O.
MARQUA, JOHN HENRY	3456 Vine St.
PENN, LOUISE BERRY	2823 Park Ave.
SIMMONS, MARGARET VIRGINIA	273 McCormick Pl.
STEELMAN, CARRIE ALICE	634 Lincoln Ave.
SUTER, ELIZABETH [ELA]	2308 Rohs St.
WEIK, MARGUERITE ROMILDA	Hamilton, O., and 3000 Burnet Ave.
WETZEL, HELENE ELIZABETH	305 Park Ave., Newport, Ky.
WORK, DOROTHY FRANCES	Oxford, O., and Closson Court, Ludlow, Ky.
WORKUM, HANNAH	678 N. Crescent Ave.

First Year

ANDREWS, ROWENA	747 Delta Ave.
AULT, RUTH ELEANOR	624 Lincoln Ave.
AYERS, IRENE SARAH	Morrow, O., and Christ Hospital
BAUMGARDNER, NINA G.	6127 Roe St.
BAXTER, HELEN LUCILE	624 Lincoln Ave.
BOCKHOLT, JEANETTE	2616 W. Sixth St.
BRAY, ALICE POLLACK	101 Burns Ave., Wyoming, O.
BURNS, MARY ISABEL	R. R. No. 1, Madisonville
BUSH, HELEN ELIZABETH	23 St. Leger Apts.
CAMPBELL, ZELMA	Harrison, O.
COPELAND, MARTHA HAGE	624 Lincoln Ave.
DICKERSON, EDNA LORENE	8 James St., Elmwood Place, O.
DICKERSON, ELLA AMANDA	2558 Madison Rd.
EATON, MARY EVELYN	Proctorville, O., and 2326 Auburn Ave.
GAMMILL, PAULINE	4804 Beech St., Norwood, O.
GRIMPE, JOY BARBARA	627 Oak St.
HARPER, QUEENIE SELLARS	625 Fifth Ave., Dayton, Ky.
HAUCK, HELEN EMELIE [ELA]	935 Dayton St.
ISLER, LILLIAN ELENORE	3820 Floral Ave., Norwood, O.
MORRIS, MARY MADALYN	Stanberry, Mo., and 2475 Paris St.
PADDACK, EDITH FRANCES	559 Purcell Ave.
RICHARDS, NELLIE GRACE	4483 Eastern Ave.
SCHULZE, ELSE LOUISE	4008 Floral Ave., Norwood, O.
SCHWENKER, MARGARET AMALIA	1555 Donaldson Pl.
TENNENBAUM, ESTHER [ELA]	323 Forest Ave.
VALERIO, CLARA	907 Elberon Ave.
WHEATLEY, KATHERINE BERTHA	314 Cleveland Ave., St. Bernard, O.
WIERSCH, ANTONIA KATHERINE	1116 Carson Ave.
WILLIAMS, FRANCES CORINNE	3405 Paxton Rd.

SPECIALS

BERMAN, RAE	849 Windham Ave.
BURGOYNE, MRS. MARGARET J.	2705 Norwood Ave., Norwood, O.
CRAWFORD, IVA	Menard, Tex., and 844 Lincoln Ave.
CULLEN, ANN MARY	530 Ridgeway Ave.
DIETERLE, GERTRUDE FREDERICKA	210 Hosea Ave.
FERRY, MRS. JAMES J.	2116 Auburn Ave.
LAWRENCE, EVERETT VIRGIL	Gallipolis, O., and Central Y. M. C. A.
MACK, REBECCA	4 E. Somerfield Apts.
MILLER, GERTRUDE EMILY	523 Evanswood Pl.
MYERS, MARIAN C.	2623 Eden Ave.
SADLER, GLADYS AMY [ELA]	4 Crescent Pl.
SEILKOP, NORMA MARGUERITE [ELA]	2932 Minot Ave.
SOUTHERLAND, RUTH	844 Lincoln Ave.
WEIS, PAULINE ADELAIDE	Lancaster, O., and 4215 Chambers St.

TEACHERS

AKE, GEORGE McMakin	Milan, Ind., and 765 Epworth Ave.
AIKEN, GEORGIA WHELAN [ELA]	2896 Erie Ave.
ALBERT, AMALIA	1416 Pullan Ave.
ANDERSON, JANE HOLMES	4811 Winton Rd.

AULICK, BEULAH ELVIRA	46 Mt. Pleasant Ave., Ft. Thomas, Ky.
BACON, MRS. MARGARET REARDON [ELA]	3434 Michigan Ave.
BAECHLE, JULIA MARIE [ELA]	330 Straight St.
BAKER, MRS. ELMA LEOPOLD	3121 Burnet Ave.
BARNETTE, MARY REBECCA	241 Hosea Ave.
BELL, MARGARET ELOISE	2637 Alms Pl.
BLANTON, WILLIAM SPENCER	221 W. Fourth St., Newport, Ky.
BRAMBLE, MARY RIECH	3423 Knott Ave.
BRATER, BERTHA M.	Sayler Park, O.
BRESTEL, PERRY CLARENCE	1324 Arlington St.
BUEHL, SARAH WHEATON [ELA]	16 The Navarre
BUTLER, BERTHA C.	North Bend, O.
CAIN, MARY E.	1043 Ann St., Newport, Ky.
CARTER, MRS. EMMA SAVAGE	512 Oak St., Wyoming, O.
CLEAVER, CLARENCE BARCLAY [ELA]	4601 Thobourne Ave.
CLENNA, MARGARET LEE	Evansville, Ind., and 2810 Preston St.
COCHENOWER, JOSEPHINE WINCHESTER [ELA]	334 Fifth Ave., Dayton, Ky.
COLLINS, MARY ELIZABETH	Loveland, O.
CONRAD, BEATRICE C.	3009 Kerper Ave.
COOK, MRS. MARIANNA DEVERELL	3964 Regent Ave., Norwood, O.
COULTHARD, CHARLES RAYMOND	North Bend, O., and 914 Grand Ave.
CRANE, EDITH	14 Wellington Pl.
DAVIS, ELLA PARK	1301 Cypress St.
DEMMIN, LILLIAN	1217 Greenup St., Covington, Ky.
DERRICKSON, JULIA ANN	910 Mound St.
DEWALD, LEONORE	2335 McMicken Ave.
DOWTY, MINA JAMES [ELA]	545 Lexington Ave., Newport, Ky.
DUNLAP, MARIE BARNES	3135 Beech Ave., S. Covington, Ky.
ECKHARDT, ELSIE LORENE	1810 Young St.
EVANS, MARY ETHEL [ELA]	2336 Burnet Ave.
FABE, FLORENCE L.	724 Sixth Ave., Dayton, Ky.
FEGER, HATTIE V. [ELA]	1414 Chase Ave.
FELDMANN, MARY HELEN [ELA]	1622 Scott St., Covington, Ky.
FINDLAY, ELIZABETH	761 Mt. Hope Rd.
FINDLEY, MARGARET ANNE	861 Lincoln Ave.
FITZSIMMONS, CATHERINE MARY	234 W. Ninth St., Newport, Ky.
FOLEY, MARY AGNES [ELA]	711 Elberon Ave.
FOOTE, KATHERINE CORNELIA	4305 Ashland Ave., Norwood, O.
FRANKLIN, BLUMA	11 The Ridgeway
FUSON, HENRY HARVEY [ELA]	1920 Garrard St., Covington, Ky.
GAENGE, GERTRUDE EDITH	4038 Taylor Ave.
GASKILL, HELEN M.	4601 Thobourne St.
GEIS, MARGUERITE [ELA]	115 Huntington Pl.
GELLENBECK, EDITH CATHERINE	407 Resor Ave.
GIBERT, MARIE [ELA]	3122 Woodburn Ave.
GRIMES, BEATRICE	North Bend, O.
GROSSMAN, ROSE JANE	Glencoe Hotel
GUILFOILE, MARY ELIZABETH	538 Howell Ave.
HADSELL, LAURA	2638 Alms Pl.
HALE, ELIZABETH	746 Hand Ave.
HAMILTON, MARY IMA	5833 St. Elms Ave.
HARTLIEB, RUTH C. [ELA]	3828 Regent Ave., Norwood, O.
HAWKINS, NANCY E.	733 W. Court St.
HAYES, LENORE RAY	7211 Fairpark Ave.
HENRY, BERTHA MARIE	220 Elm St., Wyoming, O.
HICKOK, KATHERINE CRAMER	1509 Madison Ave., Covington, Ky.
HOPSON, GRACE HENRIETTA	32 Alexandra Apts.

HUGI, ELIZABETH	505 Cooper Ave., Lockland, O.
HUHEEY, FLORETTA KATE	1514 Garrard St., Covington, Ky.
JOHNSON, ANNA DAVIDSON	920 Churchill Ave.
JONES, WINIFRED [ELA]	180 E. McMillan St.
KELLY, NINA	2401 Grandview Ave.
KIRKPATRICK, SUE MARION	5622 Ridge Ave.
LEEDY, NELLIE EVELYN	17 E. Ninth St.
LEVY, HATTIE MINNETTA [ELA]	303 Goodman St.
LEWIS, LYDIA MAY	Oxford, O., and 1523 Jones St.
LITTELL, HELEN HARRIS	4413 Whetzel Ave.
LONGSHORE, EMMA MARGARET	35 W. Eleventh St., Covington, Ky.
MCGREW, MARY [ELA]	Milford, O., and 3597 Vine St.
MANS, GRACE ALICE	1509 Madison Ave., Covington, Ky.
MARSH, MARTHA	2514 May St.
MEINHARDT, CLARA	1911 Young St.
MEYER, EVELYN LUCY	1742 Mears Ave., Mt. Washington
NAEHER, ANNA LOUISE	448 Considine Ave.
NEAVE, ELLA	16 The Roanoke
NICKLES, ALICE BELMER	1406 John St.
O'NEILL, LAURA	2371 Fairview Ave.
OVERBECK, ANNA	21 Sidney Ave., Price Hill
PADDOCK, CLAIRE	345 Beech Ave., Wyoming, O.
PARK, ELLA	207 Van Voast St., Bellevue, Ky.
PAULL, MARTHA T. [ELA]	3217 Glendora Ave.
PHILLIPS, MARIE INGRAM	Lexington, Ky., and 312 Garrard St., Covington, Ky.
PISTORIUS, EMILY	755 Whittier St.
PLATZ, ANNA MARIE	617 Crown St.
PRESSLER, ESTELLE	3649 Archer St.
PYLE, MARGARET ELIZABETH	1539 Scott St., Covington, Ky.
RARDON, FLORENCE JOSEPHINE	3769 Pennsylvania Ave.
REED, CRESSIE	3418 Duncan Ave.
RENZELMAN, ELSIE VAN ZANDT	235 N. Cooper Ave., Lockland, O.
ROEVER, DONALD OLIVER [ELA]	4931 Roanoke St.
SCHAEFER, SUSANNA SOPHIA	502 Center Hill Ave., Elmwood Place, O.
SCHIEL, ELEANOR	3615 Middleton Ave.
SCHWARBERG, BERYL LOUISE [ELA]	635 Nelson Pl., Newport, Ky.
SCHWARBERG, HAZEL MARGARET [ELA]	635 Nelson Pl., Newport, Ky.
SHAFFER, EMILINE MAE	200 Worthington Ave., Wyoming, O.
SHUMARD, MARTHA EMMA	5709 Arnaby Pl.
SMITH, ANNIE LOU	3450 Clifton Ave.
SMITH, MRS. GEORGINE KELLY	1111 Myrtle Ave.
SNYDER, MYRTLE [ELA]	1424 E. McMillan St.
SPRINGER, CHARLES [ELA]	2437 Madison Rd.
STARR, ELIZABETH VARIAN [ELA]	284 McGregor Ave.
SURRAN, ELIZABETH	328 Park Ave., Newport, Ky.
TAYLOR, ARTHUR CULLEN	5606 Orlando Pl.
TEDTMANN, MARTHA FLORENCE	414 Betts St.
TRIK, NAOMI	210 Center St., Bellevue, Ky.
WANZER, WINIFRED CLAIRE	Urbana, O., and 18 Park Apts.
WATERS, MINNIE MOORE	2814 Preston St.
WEINBERGER, JULIETTA	867 Hutchins Ave.
WEISS, JULIA AMALIE	1121 Central Ave., Hamilton, O.
WHITE, ELLA	2933 Montana Ave.
WINKLER, GEORGE JOHN	1616 Fairfax Ave.
WOOD, GEORGE PERRY	Sta. K, R. R. No. 9
WORTHINGTON, MADELINE	Wren, O., and 528 Clark St.
WRIGHT, PEARL MAE	811 Lincoln Ave.
ZELLER, ELSIE M.	2518 Ingleside Ave.

ENTERED SECOND SEMESTER

REGULAR STUDENTS

COLDEWEY, CATHERINE DEVEREAUX	272 McCormick Pl.
STEWART, MOISELLE MARGUERITE	616 Barr St.
THOMPSON, ROSAN ELIZABETH	2111 Cameron Ave., Norwood, O.

SPECIAL STUDENT

MILLER, THEODORE HUGH	Central Y. M. C. A.
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TEACHERS

BINGAMAN, MARY R.	Highland and Piedmont Aves.
DAMUS, FRIEDA BAUER	216 Dorchester Ave.
LaMAY, ETHEL ROBERTA	5510 Ravenna St.
MORRISON, EDITH G.	639 June St.
NORRIS, LUELLE WHEELER	1318 Chapel St.
PHILLIPS, NETTIE BEATRICE	1312 Lincoln Ave.
ROSS, MARY EMMA ROBINSON .	2810 Preston St.
SOUTHCATE, VIRGINIA	124 Garrard St., Covington, Ky.

COLLEGE OF ENGINEERING AND COMMERCE

COLLEGE OF ENGINEERING

FIRST SEMESTER

REGULAR STUDENTS

Seniors

BROWN, GEORGE CARLTON	Williamsport, Pa., and 333 McGregor Ave.
GARRISON, JAMES HARWOOD	2938 Urwiler Ave.
PINCKARD, FRANK ELLIS	Higginsport, O., and 2506 Moorman Ave.

Juniors

ABRAMS, LOUIS	625 Isabella St., Newport, Ky.
CORDES, WILLIAM ALBERT	715 Springfield Ave., Wyoming, O.
FRIES, DANIEL GUSTAV	1826 Garrard St., Covington, Ky.
GARRISON, STUART RICHEY	2938 Urwiler Ave.
GERSTLE, JOSEPH PETER, JR.	3558 Beechmont Ave.

Sophomores

SNOW, JOHN VIRGIL	Aurora, Ind., and 781 Summit Ave.
SPAFFORD, FRED AUDREY [ELA]	Plainfield, Ia., and 3110 Imperial Ave.
SPITLER, HERBERT C.	2214 W. Third St., Dayton, O.
WINANS, LAURANCE COCHNOWER	2527 Ashland Ave.

Freshmen

BAYLES, FREDERICK FRANCES	308 McGregor Ave.
BRUSON, HERMAN ALEXANDER	525 Rockdale Ave.
FLEMING, RUSSELL CLARK	Moores Hill, Ind., and 233 Bosley St.
HATTERSLEY, GORDON B.	2220 Madison Ave., Norwood, O.
JENNINGS, WILLIAM BRIAN	Maplewood, Md., and 2956 W. McMicken Ave.
RAYMOND, DONALD STEPHENSON	3880 Isabella St.
RIEFKIN, HERBERT SPENCER	632 Maple Ave., Newport, Ky.
ROBERTSON, WARD	Ewing, Ind., and 2415 W. Clifton Ave.
RUFFNER, ARTHUR F.	Williamsburg, O., and 2038 Auburn Ave.
STRAUSS, PERCY CECIL	720 Orchard St., Newport, Ky.
TSE, TSOK CHOY	Kwangtung, China, and 538 Howell Ave.
WISE, JOSEPH LUDWIG	3128 Fairfield Ave.
WORRALL, ARTHUR	Seacombe, England, and 540 W. Seventh St.

Specials

GEIS, FRED LOUIS, JR.	115 Huntington Pl.
GEST, HENRY	2144 Grandin Rd.
PINGON, ANDRE CHARLES	Vaivre, Haute Larue, France, and 1927 Auburn Ave.

COOPERATIVE STUDENTS

Fifth Year

BAILEY, SAMUEL MAJOR	231 Monmouth St., Newport, Ky.
BROWN, DARWIN SCOTT	228 Piedmont Ave.
DETRAZ, EDWARD WADSWORTH	4210 Sherwood Ave.
DEVINEY, ALBERT FARIS	Cutler, Ill., and 3427 Middleton Ave.
DORSEY, JOHN ROBERT	Franklin, Ind., and 2667 Highland Ave.
ELHOFF, ERWIN JOHN	3251 Vine St.
ELLERT, JOSEPH EMIL	4405 Leonard St., St. Bernard, O.
FABE, ISADORE	2122 Kemper Lane
FASOLD, ARTHUR GEORGE	1737 Pulte St.
FASSETT, FRANCIS HARTWELL	Dayton, O., and 2667 Highland Ave.
GAENGE, EDWIN ROBERT	4038 Taylor Ave.
GOETZ, HAROLD EDMONDS	Chicago, Ill., and 116 E. McMillan St.
HAAS, ELWOOD ADAM	Dayton, O., and 224 McMillan St.
HANNUM, DANE MARSTON	West Milton, O., and 116 E. McMillan St.
HARTMAN, JOSEPH REED	4914 Eastern Ave.
HERMANN, HAROLD NATHANIEL	Dayton, O., and 2237 Francis Lane
HIGH, SELDEN FRANK	1342 Grace Ave.
HOBSTETTER, NORMAN A.	Pomeroy, O., and 3427 Middleton Ave.
HOWELL, JOHN HARVEY	Verona, O., and 2667 Highland Ave.
HUSS, FRANK WESLEY	624 Maple Ave.
KELLOGG, ROBERT HOLMES	Nunda, N. Y., and 309 Ludlow Ave.
KEPLER, LIONEL I.	Dayton, O., and 2667 Highland Ave.
LANGENHEIM, ARTHUR WILLIAM	Baxter Ave.
LINDSLEY, ALLEN MOORE	4546 Edgewood Ave.
LUCKETT, OSCAR PHILLIP	Washington, D. C., and 227 Albion Pl.
McKINNEY, ROBERT STEVENSON	218 Woolper Ave.

MEYER, CHARLES STEPHEN	Bond Hill, Sta. P.
NEUFFER, ARNOLD	47 Lakewood Ave.
NOBLE, NEWTON ALVIN	Buffalo, N. Y., and 2704 Hackberry St.
NYCUM, HOMER CLARK	Keota, Ia., and 127 Calhoun St.
PATERSON, ALEX	Erie, Pa., and 3570 Montith Ave.
PETERSON, HOWARD GEORGE	Dayton, O., and 220 Lyon St.
PROBST, GEORGE HERBERT	Marion, O., and 3427 Middleton Ave.
READE, RALPH W. B.	2048 Auburn Ave.
RICHARD, EDWIN JACK	3341 Reading Rd.
RITTER, CARL CLIFFORD	4317 Haight Ave.
STRATEMEYER, ARTHUR	427 Warner St.
TULL, LAWRENCE EMERSON [ELA]	1230 Hopple St.
VAN PELT, ARTHUR A.	Middleton, O., and 2905 Burnet Ave.
WALKER, JOHN GRIEG, JR.	6065 Oakwood Ave.
WEST, HERBERT NORTON	2834 Madison Rd.
WIDAU, WILLIAM EARL	937 Suire Ave.
WIESSLER, JOHN ELMER	419 E. Liberty St.
YELTON, PAUL HAGEMEYER	Butler, Ky., and 140 W. University Ave.

Fourth Year

ALLEN, CHARLES JOHN	3738 Edwards Rd.
ATKIN, BERNARD	Sayre, Pa., and 44 E. McMillan St.
AVERILL, WILLIAM DAVID	Frankfort, Ky., and 2667 Highland Ave.
BAUER, RALPH CHARLES	4350 Williamson Pl.
BEEKLEY, HENRY L. [ELA]	1929 Kinney Ave.
BERG, ISADORE ALBERT	3340 Reading Rd.
BOCKHORST, JOHN JOSEPH	774 Summit Ave.
BOONE, JOE CLINTON	2372 Park Ave.
BRAND, CLIFFORD GEORGE	14 W. Charlton St.
BRAULT, RICHARD HENRI	St. Malo, Vilaine, France, and 2521 Auburn Ave.
BRAUN, ERNST	Buffalo, N. Y., and 2532 Woodburn Ave.
BRIEL, GEORGE WILLARD	2667 Highland Ave., Southgate, Ky.
BRITE, HECTOR LEIGH	3344 Gano Ave.
BURNS, HARRY ROBERT	Franklin, O., and 540 W. Seventh St.
CLARK, HARRY FRANKLIN	Monroe, Wash., and 127 Calhoun St.
CONSTABLE, CHARLES E.	4220 Marburg Ave.
CROME, LESTER CHARLES	Richmond, Ind., and 127 Calhoun St.
CRUTCHFIELD, JAMES TEVIS	18 Woodburn Apts.
DANGEL, HERBERT ABRAHAM	725 Armory Ave.
DORAN, JOHN EDWARD	1616 Larch Ave.
ELLIOTT, THOMAS ERNEST [ELA]	351 Wood Ave
FEIGHERY, EUGENE JOSEPH	616 Western Ave., Covington, Ky.
FELL, JACOB [G]	Brooklyn, N. Y., and 511 Hickory St.
FINCH, BRENT STERRETT	1727 E. McMillan St.
FITZGERALD, GERALD EDWARD	Fond du Lac, Wis., and 2437 Clifton Ave.
GARNATZ, GEORGE FREDERICK	4243 Hamilton Ave.
GELLENBECK, FRANCIS R.	407 Resor Ave.
GREISER, KENNETH EVERS	3039 Montana Ave.
HENLEIN, CARL ALBERT	2446 Mound Ave., Norwood, O.
HENSHAW, LEWIS JOHNSON	5763 Belmont Ave.
HERZOG, JOHN P.	Massilon, O., and 2649 Bellevue Ave.
HOBART, JOHN POTTS	2419 Salutaris Ave.
HUCKE, ELMER FRANK	404 Lombardy Ave., Elmwood Place, O.

KAMPHAUSEN, RUDOLPH CARL	3018 Sanders St.
KECK, WILLIAM EUGENE	26 W. Thirteenth St.
McFARLAN, JAMES POWELL	726 W. Ninth St.
McFARLAND, JAMES CLARK	6315 Beechmont Ave.
McKINLEY, GLEN LLOYD	Denver, Colo., and 54 E. McMillan St.
MAGGS, ALBERT HECTOR	Fitchburg, Mass., and 2489 Paris St.
MANSON, RENE	Tinchebrai, Orne, France, and 538 Howell Ave.
MILLER, JEPHTHA MACKENZIE	4146 Floral Ave., Norwood, O.
MITCHELL, CALVIN DEWEY	2210 Gilbert Ave.
MITSCH, EDWARD HENRY	Indianapolis, Ind., and 3718 Morris Pl.
MOSS, FRED JAMES	621 W. Sixth St.
NEWBOLD, ERNEST MILLER	Louisville, Ky., and 140 W. University Ave.
NUEZEL, ELMER FREDERICK	1678 Cedar Ave.
OBERLANDER, THEODORE FORD	274 Emming St.
OSBORN, CYRUS RICHARD	Dayton, O., and 2667 Highland Ave.
PEASE, GEORGE BATCHELDER	Rutland, Vt., and 2647 Bellevue Ave.
POCKRAS, HARRY	Towanda, Pa., and 44 E. McMillan St.
POPE, HOWARD LOUIS	3819 Drake Ave.
REDMON, ROY SHAFTER	Butler, Ky., and 3938 Edwards Rd.
RICHTER, DEWEY GUSTAV	24 Findlay St.
ROSENSTEIN, SIDNEY	Milwaukee, Wis., and 4042 Hamilton Ave.
ROY, GEORGE HENRI	Dijon, France, and 2521 Auburn Ave.
RUSSELL, LEWIS STERLING	224 W. McMillan St.
SCHAUFELLE, WILLIAM H.	Fairfield and Washington Aves., Bellevue, Ky.
SCHMIDT, ALBERT HENRY	2723 W. Sixth St.
SCHUBERT, EDWARD HERMAN	Freeburg, Ill., and 3332 Hackberry St.
SHAFFER, ROBERT TINSLEY	3528 Pape Ave.
SORIN, EUGENE	3396 Erie Ave.
STEGEMEYER, LOU AUGUSTUS	3640 Russell Ave.
STRIETELMEIER, EDWARD CHARLES	230 W. McMillan St.
THAMANN, FREDERICK	2523 Stratford Ave.
THEIS, EDWIN RAYMOND	1113 Vine St., Newport, Ky.
TRINKLE, CARL	2355 W. McMicken Ave.
TUTTLE, DONALD EVERET	Wilmington, O., and 42 E. McMillan St.
WIEGAND, VERNON I. E.	Preston, Minn., and 2048 Auburn Ave.
WINKELMAN, LEON JOHN	3322 Woodford Rd., Pleasant Ridge
WINSLOW, EDWARD LLEWELLYN	3413 Whitfield Ave.
WOLFINGER, RALPH WILSON	Marion, O., and 2210 Ohio Ave.
WOOD, CLINTON HOBART	109 N. Shuler Ave., Hamilton, O.

Third Year

ADDISON, GRIFFITH THOMAS	3136 Hackberry St.
AGAR, DUDLEY CLIFTON	Newark, N. J., and 320 Burns Ave., Wyoming, O.
ALEXANDER, CLARENCE HOUSTON	126 Winkler St.
AILAN, DONALD	3237 Daytona Ave.
ALLEN, GLENN HAROLD	Chevy Chase, D. C., and 2048 Auburn Ave.
ARNOLD, CHARLES FREDERIC	Harrison, O., and 2453 Clybourn Pl.
ARNOLD, GEORGE MATHIAS	Escanaba, Mich., and 2437 Clifton Ave.
BAILEY, HERBERT POLSON	3909 Vine St.
BARKLEY, RUDOLPH	925 Clinton St.
BEAMAN, JAMES ADDISON	Sidney, O., and 2628 Cleinview Ave.
BENZING, GORDON OAKLEY	Hamilton, O., and 2344 Clifton Ave.
BISHOP, WALTER WOOD, JR.	Dayton, O., and 2210 Ohio Ave.
BROCKMAN, NORBERT CLEMENT	3559 Newton Ave.

BROWN, JAMES DEWEY	17 Bond St., Covington, Ky.
CALDWELL, NELSON FORSYTH	Alton, Ill., and 333 McGregor Ave.
CARR, ROBERT PICKET	320 Burns Ave., Wyoming, O.
CURTISS, HOWARD CROSBY	Athens, Pa., and 2437 Clifton Ave.
DAVIS, CORWINE SPALDING	1422 Greenup St., Covington, Ky.
DEARDORFF, HAROLD EMERSON	Dayton, O., and 152 W. McMillan St.
DE GINTHER, CHARLES WILLARD	3301 Hardisty Ave.
DEHMEL, LESTER FORREST	3012 Jefferson Ave.
DIEFENBACH, LOWELL TOMAN	West Alexandria, O., and 2535 Stratford Ave.
DONNELLY, RICHARD JOSEPH	524 Columbia St., Newport, Ky.
DOUTHIT, GEORGE RANDOLPH	Sioux Falls, S. D., and 2667 Highland Ave.
EASLEY, MODIE WILSON	3087 Markbreit Ave.
EDMONSTON, JOSEPH RICKETTS	2536 W. Sixth St.
EILERS, HENRY GEORGE	380 Howell Ave.
GLEESON, FRANCIS MARTIN	29 Woodsdale Ave.
GRAUER, LADRU ORON	Springfield, O., and 54 E. McMillan St.
GREGORY, LEWIS JOEL	Demopolis, Ala., and 2667 Highland Ave.
GUILDAY, JOHN WILLIAM	Xenia, O., and 42 E. McMillan St.
HALLBERG, THURE	Chicago, Ill., and 152 W. McMillan St.
HECKER, CHARLES HUGO	2032 Elm Ave., Norwood, O.
HEENA, CARL RAYMOND	Bowling Green, O., and 223 Calhoun St.
HOLLISTER, LEONARD COCHRAN	Sheridan, Wyo., and 2048 Auburn Ave.
HOUSE, EDWIN RALPH	2426 Hudson Ave., Norwood, O.
HOWE, RALPH C.	Hamilton, O., and 2521 Auburn Ave.
HUCKE, RAYMOND HENRY	404 Lombardy St., Elmwood Place, O.
HUGHES, JOHN STANLEY	Buffalo, N. Y., and 2048 Auburn Ave.
JANDER, JOHN	Buffalo, N. Y., and 27 Lakewood Ave.
KEEVER, HERBERT KOHL	3156 Glendora Ave.
KIEFNER, FRANK WILSON	Perryville, Mo., and 3411 Clifton Ave.
KING, WILLIAM TERRY	139 Woolper Ave.
KLOPP, NORMAN FRANCIS [ELA]	Oregon, Mo., and 2509 Auburn Ave.
KOEPFEN, HAROLD	Milwaukee, Wis., and 309 Ludlow Ave.
KOSKI, ELMER JACOB	Waterford, Conn., and 54 E. McMillan St.
KRAEMER, ERWIN ALBERT	311 Oregon St.
LONDON, WILLIAM BRADLEY	Meadville, Pa., and 844 E. Ridgeway Ave.
McCLURE, ARTHUR WILLIAM	Dayton, O., and 2210 Ohio Ave.
McCUNE, RONALD	Muskagee, Okla., and 2623 Kemper Lane
MARCHE, CLARENCE ALTER	3642 Vine St.
MATHIS, HARRY MICHAEL	6310 Madison Rd.
MEADOWS, BEALEY AUSTIN	665 Overton St., Newport, Ky.
MEREDITH, WILLIAM PAUL [ELA]	2616 Marsh Ave., Norwood, O.
MESHON, JAMES	Altoona, Pa., and 140 W. McMillan St.
MEYERS, PHILIP MITCHELL	1518 St. Leger Pl.
MILLER, CLIFFORD NEVILLE, JR.	21 Lombardy Apts.
MILLS, FRANK F. [ELA]	5815 Wyatt Ave., Kennedy Heights
MINNIUM, BYRON BIDDLE	Meadville, Pa., and 3018 Sanders St.
MORRIS, GEORGE WILLIAM	Brazil, Ind., and 2357 Stratford Ave.
MORRISON, FRANK WILLIAM	1606 Mansfield St.
MYERS, JAMES EARL	1830 Fairfax Ave.
NEJAKO, ADAM AUGUSTINE	Middletown, Conn., and 27 Lakewood Ave.
NEWELL, GEORGE	Westfield, N. Y., and 152 W. McMillan St.
NOBLE, JOHN IRVINE	Abington, Pa., and 2210 Ohio Ave.
OLINGER, STANTON	2126 Auburn Ave.
OTT, REUBEN E. F.	820 York St.
PATON, ALEXANDER NELSON	Racine, Wis., and 54 E. McMillan St.

PETER, OSWALD FREDERICK	Hamilton, O., and 2344 Clifton Ave.
PETREE, JAY R.	Oregon, Mo., and 2509 Auburn Ave.
PEFFERLE, FRANK HERMAN	Appleton, Wis., and 150 W. McMillan St.
PIPER, ROBERT NEAL	1334 Meier Ave.
PLUEDDEMANN, HUGO REINHART	448 Ada St., California
POST, ERRETT AUGUSTUS	N. Chattanooga, Tenn., and 150 W. McMillan St.
RICE, JOSEPH KELLOGG	Monroeton, Pa., and 2210 Ohio Ave.
RICKER, FRANK GORDON	Kirkwood, Mo., and 3330 Jefferson Ave.
RITZI, JOHN HENRY	14 Juergens Ave.
ROBY, CARLES FOY	Wooster, O., and 304 W. McMillan St.
RODGERS, GEORGE KERSHAW	Fall River, Mass., and 2667 Highland Ave.
ROLLER, WALTER WILLIAM [ELA]	Milwaukee, Wis., and 225 Lyon St.
ROSHONG, ROY GEORGE	Canton, O., and 2210 Ohio Ave.
SALKOVER, NICHOLAS MANN	256 Ehrman Ave.
SARVIS, ROBERT G. F.	8315 Curzon Ave.
SCHAKEL, HERBERT HENRY [ELA]	Indianapolis, Ind., and 116 E. McMillan St.
SCHNEIDER, MATTHEW SIMPSON	Odebolt, Ia., and 107 Mason St.
SCHOELWER, WILLIAM BRAZELL	2851 Victoia Ave.
SCHRADER, CHARLES H.	Brookline Ave. and Oxford Terrace
SHAWAN, RALPH MAPLE	Loveland, O.
SHOEMAKER, GLENN ELBERT	Winchester, Ind., and 2929 Euclid Ave.
SIGMUND, RALPH WILLIAM	Philadelphia, Pa., and 3330 Jefferson Ave.
SMEDLEY, ANDERSON BARDEN	2925 Eden Ave.
SMITH, WILLIAM FURBER	3773 Lueders Ave.
SPLAIN, WALTER EDWARD	McMillan St. and Taft Rd.
STACKHOUSE, HOWARD LEIGH	Fostoria, O., and 3018 Sanders St.
STEINMAN, WILLIAM NICHOLAS	4237 Williamson Pl.
STEWART, RUSSELL ELLIOTT	140 W. University Ave.
STOKES, EDWARD NICHOLAS	2363 Ohio Ave.
TAYLOR, ELBERT JOHN	Forest Grove, Ore., and 42 E. McMillan St.
THEIS, CHARLES VERNON	1113 Vine St., Newport, Ky.
TOWNSEND, MERRILL	Gordon, O.
WAGNER, BERZELIOUS	215 E. 18th St., Covington, Ky.
WALKER, ALFRED RUSSELL	Middletown, O., and 206 S. Harrison Ave.
WALKER, RANDALL EDWIN	3716 Columbia Ave.
WATTS, THOMAS RAYMOND	Winchester, Ind., and 2929 Euclid Ave.
WENZEL, ALFRED WILLIAM	2214 Cameron Ave., Norwood, O.
WILL, ALBERT HENRY	4415 Plainville Rd.
WILLIAMS, HARRY BACKUS	54 E. McMillan St.
WISBEY, GEORGE THOMAS [ELA]	27 E. 11th St., Covington, Ky.
WITTHROW, STANLEY CLAYTON	411 Ludlow Ave.
WOELFLIN, WILLIAM, JR.	Louisville, Ky., and 3110 Imperial St.
WUEST, ROY EUGENE	Glenwood, Minn., and 3018 Sanders St.
WURZELBACHER, GEORGE MILTON	1023 Dayton St.

Second Year

ALCORN, HERBERT SMEAD	21 Worthington Ave., Wyoming, O.
ALLEN, C. EASTON [ELA]	427 Chestnut St.
AMBROSE, DANIEL JOHN	911 Hawthorne Ave.
AMES, IRVING MORRIS	Newark, N. J., and 3110 Imperial St.
ASHTON, ROLAND C.	3471 Montgomery Rd.
BAIRD, EDWARD GRAHAM	Bowling Green, O., and 2507 Auburn Ave.
BAKER, JOHN ROSS	1924 Williams Ave., Norwood, O.
BARDES, CALVIN EUGENE [ELA]	1055 Marshall Ave.

BECK, CORNELIUS D.	Jeffersonville, Ind., and 1644 Herbert Ave.
BERNDT, HARRY	Indianapolis, Ind., and 849 Oak St.
BERTSCH, FERDERICK WILLIAM	27 Lakewood Ave.
BILLARD, GORDON YOUNGS.....	Brooklyn, N. Y., and 342 Thrall Ave.
BLAIR, JACOB JACKSON	Middletown, O., and 140 W. University Ave.
BLAIR, RUSSELL M.	3930 Ivanhoe Ave., Norwood, O.
BRADNER, JAMES W.	Ashland, Ky., and 418 Straight St.
BROWN, CARLTON E.	1234 Loudon Ave.
BROWN, JOHN EDGAR	3425 Boudinot Ave.
BUCK, IRVING JAMES	St. Louis, Mo., and L. B. Harrison Hotel
BURNETT, RALPH CLIFFORD	315 Crestline Ave.
BURT, ROBERT VICTOR	3822 Drake Ave.
BUTLER, KENNETH FORD	Dayton, O., and 140 W. University Ave.
CHAMPLAIN, WALLACE J. [ELA].....	Walla Walla, Wash., and 2048 Auburn Ave.
CHANDLER, PAUL J.	Waynesville, O., and 112 E. University Ave.
CLARK, JAMES MONTGOMERY	Charleston, W. Va., and 2324 Nelson St.
CLARK, OLOHA SIMPSON	Dayton, O., and 65 Emming St.
CONNELL, PAUL VICKERS	1934 Williams Ave., Norwood, O.
COONS, EDGAR DOUGLAS	5629 Bramble Ave.
CRAIN, ALLAN MEYER	3146 Harvey Ave.
CROWE, WILLIAM LAMBERT	Arlington, Ia., and 2441 Highland Ave.
DAUBENBIS, NORDEN WILLIAM	2638 Dennis St.
DAY, ALLEN	New Richmond, O., and 139 Woolper Ave.
DEUTSCH, ZOLA GOTTHARD	Dayton, O., and 3600 Wilson Ave.
DEWEES, MERLE WENDELL	Richmond, Ind., and 127 Calhoun St.
DODS, HENRY JOHN	6001 Kennedy Ave.
DOERLER, ALBERT J.	523 Hickman St.
DOWNNEY, JOHN ERNEST	Lincoln, Neb., and 1722 Hewitt Ave.
DUBRUL, STEPHEN	835 Beecher St.
DUNKLE, WILLIAM FREEMONT	Haddonfield, N. J., and 540 W. Seventh St.
DUNSKER, SHIEL	748 Armory Ave.
DURBIN, EDWARD DAVID	314 E. University Ave.
ELIAS, LEO BURT	Hamilton, O.
ERNST, MAURICE ESTES	4602 Ward St.
ESHBAUGH, JESSE EVERETT	Dayton, O., and 3110 Imperial St.
EUBANKS, JAMES THOMAS	3445 Woodburn Ave.
EVANS, JOHN PFAFF	216 Wilmuth Ave., Wyoming, O.
FEILD, ALEXANDER SHAW.....	Marshall, Tex., and 2210 Ohio Ave.
FENLEY, MORGAN	311 Garrard St., Covington, Ky.
FISHER, HARRY CHESTER	2276 Spring Grove Ave.
FITZGERALD, PERCY HENRY	Fitchburg, Mass., and 2437 Clifton Ave.
FLEMING, THOMAS C.	Butler, Pa., and 27 Lakewood Ave.
FROWE, CHESTER EDWIN	1720 Fairfax Ave.
FULLER, WILLIAM MAXWELL	Lincoln, Ill., and 2437 Clifton Ave.
FULNER, RAYMOND LESLIE	925 Columbia St., Newport, Ky.
GEBAUER, MAX BORK	2816 Highland Ave.
GEIS, NORWOOD CHARLES	1528 Gilpin Ave.
GLEASON, JOHN FRANCIS	3118 W. Sixth St.
GLICKSBERG, HYMAN ELI	5 LeRoy Court
GOLDSTEIN, REUBEN	Kansas City, Mo., and 312 Straight St.
GOSS, RICHARD M.	Warsaw, Ind., and 2048 Auburn Ave.
GRAVES, HERBERT CORNELIUS	Washington, D. C., and 15 E. McMillan St.
GREEN, HARRISON GATES	5639 Bramble Ave.
HALLER, KARL RAYMOND	Dayton, O., and 3110 Imperial St.
HANAUER, CHARLES HUNT	1881 Taft Rd.
HARROD, JOHN MARTIN	3429 Price Ave.

HASLUP, ROBERT EMANUEL	Osborn, O., and 3110 Imperial St.
HAVELAAR, WILLIAM CHARLES	Paterson, N. J., and 2537 Clifton Ave.
HAYMAN, EARL SPENCER	605 Wallace Ave., Covington, Ky.
HEDGER, HOWARD BENJAMIN	Lacona, N. J., and 1644 Herbert Ave.
HENRY, CHESTER JOEL	Youngsville, Pa., and 312 Straight St.
HENTZ, ELMER GEORGE	960 Oakland Ave.
HERBERT, FRANK VINCENT	Harrison, O., and 540 W. Seventh St.
HERRLE, MAX	2314 Rohs St.
HIBARGER, EDWIN G. [ELA]	Wichita, Kan., and 3330 Jefferson Ave.
HICKS, GILBERT HENRY	Takoma Park, D. C., and 333 McGregor Ave.
HOCK, WILLIAM THOMSON	2822 Highland Ave.
HUSUNG, JOHN LEO	Colorado Springs, Colo., and 3110 Imperial St.
IDESON, ALISON BAPTISTE, JR.	2136 Cameron Ave., Norwood, O.
ISPHORDING, RICHARD GERALD	4231 Forest Ave., Norwood, O.
ISRAEL, DORMAN DANIEL	The Hamilton Bldg.
JACOBS, GEORGE HENRY	1113 Sherman Ave.
JENKINS, RICHARD BLAKE	3517 Monteith Ave.
JERVIS, THOMAS EVERETT	2325 Reading Rd.
JOHNSON, MARCUS KOHLER	Dayton, O., and 150 W. McMillan St.
JONES, GORDON MARSHALL	Dayton, Ky.
JUERGENS, WALTER AUGUST	757 Delta Ave.
KESSEL, ALBERT JOHN	2929 Sander St.
KINNEY, WILLIAM ANTHONY	412 Worthington Ave., Wyoming, O.
KERSTEN, AUGUST FRANK	2202 Washington Ave., Norwood, O.
KRATT, EMIL JACOB	Portland, Ore., and 2048 Auburn Ave.
KUHN, CLARENCE WILBUR	1827 Mears Ave., Mt. Washington
LANG, J. OLIVER	Denver, Colo., and 3110 Imperial St.
LEATHERBY, ARTHUR G.	3295 Montana Ave.
LEWIS, GEORGE EDMUND	Connersville, Ind., and 152 W. McMillan St.
LIDDLE, HAROLD WILLIAM	420 Reilly Rd., Wyoming, O.
LIDELL, LYLE LUCIUS	Schuyler Lake, N. Y., and 3110 Imperial St.
LIEBTAG, CARL FERDINAND [ELA]	5652 Bramble Ave.
LOHREY, CLARENCE ROBERT	1210 Ludlow Ave., Hamilton, O.
LUBIN, CLARENCE ISAAC	B 10, Landon Court
MCCARTT, LAWRENCE	Walton, Ky.
MCDIARMID, ROYE CLARE	3529 Wabash Ave.
MADDUX, DWIGHT	4745 Winton Rd.
MALLIN, MILTON	3662 Reading Rd.
MARIEN, JOHN AUGUST	2026 Crown Ave., Norwood, O.
MAXON, BRUCE E.	751 Hand Ave.
MEHLHOPE, LINCOLN ELLIOTT	3703 Portland Ave.
MENTEL, CHARLES EDWARD	Dayton, O., and 3110 Imperial St.
MILLER, HARVEY FRANKLIN	Lebanon, O.
MOLLOY, JOHN ANTHONY	5101 Ravenna St.
MORGAN, HAROLD L. G.	Buffalo, N. Y., and 2333 Wheeler St.
MOYA, ROBERTO RAMIREZ [ELA]	Chillan, Chile, S. A., and Central Y. M. C. A.
MUELLER, WILLIAM	107 W. Liberty St.
MUTH, GEORGE HEIMERL	3259 Beresford Ave.
NESPER, ORVILLE	3118 Glendora Ave.
NOERTKER, JOSEPH ANTHONY	23 W. 11th St., Newport, Ky.
OBERWARTH, LEO EDWIN	Frankfort, Ky., and 215 Lyon St.
ODEN, WILLIAM ALLEN	Nashville, Tenn., and 1525 Lincoln Ave.
PABST, ROBERT PETER	Hamilton, O., and 2170 Elysian Ave.
PABST, WARREN JACOB	Hamilton, O., and 2170 Elysian Ave.
PARKER, DAN ELLIOTT	Hornell, N. Y., and 2521 Auburn Ave.

PENCE, CLYDE HARRY	Springboro, O., and 3343 Sherlock Ave.
PERKINS, BERNARD ARTHUR	Paterson, N. J., and 210 W. McMillan St.
PETZOLD, JOHN BERNARD, JR.	2219 McGregor Pl.
PHILLIPS, PHILIP ELIAS	746 E. Ridgeway Ave.
PORTER, KENNETH WEBB	Connersville, Ind., and 1644 Herbert Ave.
QUEDENS, PETER GEORGE	Blue Ash, O.
RAPP, LOUIS JOSEPH	609 Milville Ave., Hamilton, O.
RAPPSILBER, WILLIAM REINHOLD, JR.	Dayton, O., and 3110 Imperial St.
ROUSH, ALAN DWIGHT	Dayton, O., and 327 Straight St.
RUTH, GEORGE WASHINGTON	2487 Madison Rd.
SAMPSON, JOSEPH	Fall River, Mass., and 2385 Wheeler St.
SCHERRING, WALTER SPENCER	Shandon, O., and 2509 Auburn Ave.
SCHELLHAMMER, LAWRENCE WILLIAM	48 Albany Ave.
SCHIERLOH, FRED PHILIP	227 S. Wayne Ave., Lockland, O.
SCHINDLER, HERBERT CHARLES	Dayton, O., and 2509 Auburn Ave.
SCHUBERT, WILFRED G.	226 E. Rochelle St.
SCOTT, EDWIN IRVING	15 Miami Parkway, Ft. Thomas, Ky.
SEIBERT, CARL FRED J.	310 W. 12th St., Newport, Ky.
SHAFER, LEWIS WELLS	Asheville, N. Y., and 2617 University Court
SHARP, ROBERT KELLOGG	Troy, O., and 125 W. McMillan St.
SHAWHAN, WILLIAM HENRY	Hamilton, O., and 139 University Ave.
SHUSTER, WILLIAM WILBUR	West Union, O., and 3619 Vineyard Pl.
SILVERMAN, JACK BERNARD	62 Albany Ave.
SIMON, ARTHUR GOODMAN	Paducah, Ky., and 511 Hickory St.
SIMS, CHARLES RICHARD	Hamilton, O., and 139 University Ave.
SLOAN, ROBERT FIELDING	Charlevoix, Mich., and 211 Imperial St.
SMITH, CHESTER MAXIMUS	Middletown, O., and 211 Imperial St.
SPEICHER, DAVID HAROLD	Granville, O., and 2513 Ohio Ave.
SPERTI, GEORGE	120 E. 8th St., Covington, Ky.
STACKHOUSE, JUDSON	Fostoria, O., and 139 Kinsey Ave.
STEINER, RAYMOND JOSEPH [ELA]	3042 Taylor Ave.
STROBEL, HENRY	2968 Moreland St.
STOEHR, JAMES H.	2309 Highland Ave.
STUTSON, ALVERD CHANEY	62 S. Warwick Apts.
SWARTZEL, PAUL EDWIN	Dayton, O., and 27 Lakewood Ave.
SWEENEY, EDWARD ALBERT	1836 Wayland Ave., Norwood, O.
TAYLOR, ARTHUR FILLMORE	6081 Ridge Ave.
TAYLOR, CHARLES WILMET	Fredericktown, O., and 2210 Ohio Ave.
THOMAS, CLIFFORD GLENN	Maysville, Ky., and 2219 Park Ave.
THOMPSON, JAMES FRAZIER	329 Garrard Ave., Covington, Ky.
TURRELL, RICHARD JESSUP	214 Byrd St., Covington, Ky.
URWIN, THOMAS RICHARD	Cleveland, O., and 2507 Auburn Ave.
VOELKEL, WILLIAM WESLEY	4104 Elsmere Ave., Norwood, O.
WALLACE, HENRY MILTON	Asheville, N. Y., and 309 Ludlow Ave.
WATKINS, WILLIAM EARLE	Troy, O., and 2667 Highland Ave.
WHALEY, HARRY WILBUR [ELA]	3807 Glenn Ave., Covington, Ky.
WHITE, GEORGE HAWLEY	839 York St., Newport, Ky.
WILSON, FRANCIS KING	Ottawa, Ill., and 1912, Young St.
WOLFSON, BENJAMIN	127 Green St.
YUEN, JEONG JOE	Canton, China, and 2647 Bellevue Ave.

First Year

AGGER, EMMET HENRY	1041 Clark St.
ALLARDINE, WILLIAM D.	Meshoppen, Pa., and Central Y. M. C. A.
ALTSHOOL, STUART MARX	12 Landon Court
ANDERSON, LELAND PHELPS	2886 Ziegler Ave.

ANDERSON, LLOYD WAYNE	Cleveland, O., and 2645 Bellevue Ave.
ANDERSON, ROBERT WATTERS	Vermont Ave., Wyoming, O.
ANDREWS, JOHN LLOYD	Mansfield, O., and 41 E. McMillan St.
ANTRIM, DEAN	Dayton, O., and 2667 Highland Ave.
APPLETON, JULIUS GARST	5859 Highland Ave.
ARONOFF, SAMUEL	225 Gilman Ave.
ASHMAN, ARTHUR BENJAMIN	Rochester, N. Y., and 2333 Wheeler St.
AVERMAAT, LESTER AUGUST	3000 Henshaw Ave.
AYLWARD, THEODORE CHARLES	Robson Ave., Ft. Thomas, Ky.
BACHMANN, CHARLES WILLIAM	1445 Main St.
BAILDON, WILLIAM BRECK	Wilkes-Barre, Pa., and 2384 Wheeler St.
BAKER, WILTON ROBERT	Chataqua, N. Y., and 309 Ludlow Ave.
BARBER, EDWARD	Covington, Ky., and 2623 Kemper Lane
BARBER, WELLINGTON E.	3226 Nash Ave.
BAYER, FRED J.	3564 Colerain Ave.
BECKER, WALTER STANLEY	146 W. 74th St.
BENEDICT, WARREN A.	Vevay, Ind., and 2382 Wheeler St.
BENSON, KENNETH ALAN	3756 Edwards Rd.
BISSELL, ROBERT HEWITT	Wooster, O., and 41 E. McMillan St.
BLANK, IRVIN HAAS	Mt. Carmel, Ill., and 857 Rockdale Ave.
BLICKENSBERGER, ROBERT	3145 Mapleleaf Ave.
BLOOD, FRANK ALDEN	Portsmouth, O.
BOGARDUS, CLAUDE CONNOR	Warsaw, Ky., and Clifton Hotel
BOLLINGER, CALVIN JOHN	Canton, O., and 327 Straight St.
BORDEN, DAVID MERING	Franklin, O.
BOYD, THOMAS DUDLEY	Hamilton, O., and 333 McGregor Ave.
BRADY, EUGENE JAMES	Far Rockaway, N. Y., and 3330 Jefferson Ave.
BRANCH, CARTER ALLAN	Hamilton, O., and 139 University Ave.
BRATTEN, SAMUEL ARNOLD	Dayton, O., and 2650 Bellevue Ave.
BREAM, LLOYD RONALD	114 W. St. Clair St.
BRESCKA, RUDOLPH SAMUEL	Roselli Park, N. J., and 606 Wayne St.
BRIDGES, CHARLES PERCY	Indianapolis, Ind., and 116 Piedmont St.
BRINKMAN, ROBERT	24 W. 15th St.
BROVAN, DUANE MAX	Sioux Falls, S. D., and 140 W. McMillan St.
BROWN, BENNETT CHARLES	New London, Conn., and 743 E. McMillan St.
BROWN, WILLIAM DONALDSON	610 Washington, Ave. Newport, Ky.
BRUNHOFF, HENRY EDWARD	215 Forest Ave.
BRYAN, JOHN EDGAR	Kissimmee, Fla., and 2521 Auburn Ave.
BURROWAY, ARTHUR CALVIN	Canton, O., and Central Y. M. C. A.
BURTON, CONRAD VICKER	Corydon, Ia., and Central Y. M. C. A.
BYLENGA, ANDREW WOLF	801 Cleveland Ave., Hamilton, O.
CAMPBELL, ROBERT M.	Foster, O.
CARROLL, CHARLES MARION	Manchester, Ind., and 3026 Harvey Ave.
CARTER, JULIAN P., JR.	Greenwich, Conn.
CARTWRIGHT, HAROLD CHESTER	1612 Gilsey Ave.
CASE, LAWRENCE LEROY	4020 Elsmere Ave., Norwood, O.
CAVAGNARO, ATTILIO EMILE	Middletown, Cal., and 42 E. McMillan St.
CHALOCK, JACOB	1042 Seton Ave.
CHUNG, HENRY U. K.	Hong Kong, China, and 2657 Dennis St.
CLAGETT, JACKSON LEE	Faribault, Minn., and 344 Clifton Ave.
CLARK, CLINTON PENNINGTON	Nashville, Tenn., and 1525 Lincoln Ave.
CLARK, HARRY WINSTON	13 Ohio Ave., Ft. Thomas, Ky.
CLARK, MILTON WALTER	Wooster, O., and 538 Howell Ave.
COATE, JACK KINSEY	Dayton, O.
COCKRELL, WAYNE LEROY	572 Union Ave., Dayton, O.

COLLIS, JEANE ESTELLE	Maysville, Ky., and 312 Straight St.
CONE, LOGAN JENNINGS	Hamilton, O.
CONNER, MILES WALTER	6010 Bramble Ave.
COOMBS, NORMAN D.	Amelia, O., and 5 Eden Park Terrace
COOMER, ORVILLE BOGGESS	Speedwell, Ky., and 2521 Auburn Ave.
COVERSTON, FRED L.	1455 Aster Pl.
CROLLEY, BENJAMIN FRANKLIN	1318 Race St.
CROSSET, RICHARD BOYCE	2145 East Hill Ave.
DAHLQUIST, HERBERT ANTON	Chicago, Ill., and 152 W. McMillan St.
DALRYMPLE, JAMES HINES	Richmond, Ind.
DANNER, HARLAN	984 E. Third St.
DANNER, HORACE NEWELL	6058 Oakwood Ave.
DARLING, KENNETH TURNER	Preston, Minn., and 2048 Auburn Ave.
DAVIS, CLARENCE EUGENE	Pampa, Texas, and 116 E. McMillan St.
DAWSON, RAYMOND EDWARD	2509 Park Ave.
DENHAM, THOMAS WYATT	3718 Columbia Ave.
DESJARDINS, GREGORY TRUDEAU	3430 Brookline Ave.
DEWING, CHESTER LE MOIN	3028 Woodside Pl.
DICKSTEIN, CARL C.	3125 Hackberry St.
DINKELACKER, WILLIAM	1704 North Bend Rd.
DUFFY, CHARLES GARVON	3629 Wabash Ave.
DUFFY, JAMES RAYMOND	Fall River, Mass., and 2385 Wheeler St.
DUNHAM, JOHN MILTON	537 Superior Ave., Dayton, O.
DURFEE, JOHN HENRY G.	Kansas City, Mo., and 3132 Glendora Ave.
EBY, DONALD CLARK	Miamisburg, O., and 2631 Jefferson Ave.
EIPERT, CARLTON BARTON	230 W. McMillan St.
EILERS, JOHN WAGNER	380 Howell Ave.
ESTERKIN, MEYER	926 Fairbanks Ave.
EVANS, ALFRED HARRIS	32 Navarre Bldg.
EVANS, CHARLES MACMILLAN	2268 Washington Ave., Norwood, O.
EVANS, JACK ALLEN	1 St. James Court
FAGALY, JOSEPH JENNINGS	North Bend, O.
FAGIN, PAUL GLENN	1832 Hopkins Ave., Norwood, O.
FARR, ALFRED ERNEST	Chautauqua, N. Y., and 309 Ludlow Ave.
FARR, ELLSWORTH JOSEPH	Chautauqua, N. Y., and 309 Ludlow Ave.
FAUST, GILBERT SEXTON	Mt. Carmel, Ill., and 3018 Sanders St.
FENDLER, LOUIS ARTHUR	Indianapolis, Ind., and 443 Riddle Rd.
FENTON, CARL FREDERICK	Stafford Springs, Conn., and 3152 Vine St.
FERTIG, EARL ANDREW	Indianapolis, Ind., and 116 Piedmont St.
FEUILLE, HARLAN	Ancon, Canal Zone, Panama, and 1228 Vine St.
FIELDS, WILLIAM STERLING	211 W. Ninth St.
FIELMAN, WALTER E. M.	2519 Vine St.
FISCHER, ROBERT WILKE	3127 Harvard Ave.
FISHER, EDWARD JAMISON	Williamsport, Pa., and 2521 Auburn Ave.
FLANNAGAN, JOHN EDWARD K.	Richmond, Va., and Central Y. M. C. A.
FORD, WILLIAM FRANCIS	Calistoga, Cal., and 42 E. McMillan St.
FRANCIS, MORTON PHILIP	Pontiac, Ill., and 2382 Wheeler St.
FRATZ, ARTHUR J.	4075 W. Eighth St.
FREY, ARWIN PHILIP	2051 Courtland St., Norwood, O.
FRICKE, RAYMOND CHARLES	Metamora, Mich., and 2521 Auburn Ave.
FRICKER, JOHN LAWRENCE	251 Klotter Ave.
FROMMEYER, ORLAND HENRY	5643 Ridge Ave.
FROST, GERVAISE OWEN	3959 Elsmere Ave., Norwood, O.
GABRIEL, EDWARD C.	512 Enright Ave.
GALLOWAY, CLIFFORD HERSCHEL	Barnsville, O., and 140 W. McMillan St.
GATES, BOYNTON	1314 Michigan Ave.

GAY, WINCHELL MARQUE	2521 Auburn Ave.
GEER, ELIHU	Hadlyme, Conn., and 3521 Clifton Ave.
GEIST, ROBERT MAITHRE	3228 Bishop St.
GILL, DONALD WHARTON	2319 Adams Ave., Norwood, O.
GINN, CHARLES HENRY	North Platte, Neb., and 307 Ludlow Ave.
GLASGOW, CHARLES JAMES	5307 Tompkins Ave.
GOODE, CHARLES S.	166 W. McMillan St.
GORDON, SAMUEL MORRIS	Marleboro, N. J., and 2509 Auburn Ave.
GRADISON, JULIUS TUROFF	500 Ridgeway Ave.
GRAY, LEVEN DARBY	Ferris, Tex., and 150 W. McMillan St.
GRIESE, ARTHUR ADOLPH	2958 Deckebach Ave.
GROSSMAN, JOHN	717 Laurel St.
GROVES, JOHN FREDERICK	Dayton, O., and 333 McGregor Ave.
GUNDRUM, FRANKLIN RODES	York, Pa., and 309 Ludlow Ave.
GUNTHER, HAROLD LESLIE	Paterson, N. J., and 2707 Ashland Ave.
HAGE, ARTHUR WILLIAM	Hamilton, O., and 139 University Ave.
HALL, DONALD	Lebanon, O.
HAMBLIN, ARTHUR	Grand Rapids, Mich., and 54 E. McMillan St.
HANKINS, MILTON TAYLOR	94 Park Ave., Ludlow, Ky.
HANNAFORD, FRANCIS SYDNEY	4224 Bell St., Norwood, O.
HARDISTY, FRANK EDWARD	1211 Herschel Ave.
HARKER, MERLE CHAUNCEY	Cedar Falls, Ia., and 2382 Wheeler St.
HARTUNG, RAYMOND HENRY	112 E. Charlton St.
HARUTUN, JOHN JOSEPH	Joplin, Mo., and 3028 Woodside Pl.
HASTIE, JOHN HALL	5408 Whetsel Ave.
HAYS, ROBERT HAWTHORNE	210 Woolper Ave.
HEEB, IRVING	2907 Burnet Ave.
HEIZER, JOHN ZEBULON	2016 Hudson Ave., Norwood, O.
HEIMLING, OSCAR ARTHUR	2315 Victor St.
HENDERSON, RICHARD C.	18 Woodland Pl., Ft. Thomas, Ky.
HENGEBROK, ARTHUR CHARLES	922 Washington Ave., Newport, Ky.
HENRY, HOWARD CARROLL	813 Clark St.
HERBST, HOWARD DOUGLAS	3302 Harrison Ave.
HERMANN, JOE MARC	4223 Brookside Ave.
HESS, RALPH EDWARD	645 Riddle Rd.
HICKS, HAROLD WHEELER	Takoma Park, D. C., and 333 McGregor Ave.
HILL, HAROLD SHIELDS	4812 Glenshade Ave.
HILLHOUSE, LOUDEN FRANKLIN	1542 St. Leger Pl.
HILTON, WILLIAM CURTIS	Ottawa, Ill., and 1912 Young St.
HISSONG, FLOYD	Rudolph, O., and 3620 Morris Pl.
HOBBS, GEORGE HENRY	126 E. 69th St.
HOBBS, ROSSITER HOPKINS	2207 Cameron Ave., Norwood, O.
HOLLINGWORTH, WALTER BIRKLE	10 Rob Roy Ave., Ft. Thomas, Ky.
HOLSCHER, WALTER CHARLES	4541 W. Eighth St.
HORSCH, MENNO JAMES	Scotdale, Pa., and 2358 Stratford Ave.
HORSCH, WALTER HENRY	Scotdale, Pa., and 2358 Stratford Ave.
HORTON, RICHARD OLEN	Lamar, Col.
HOUSE, WILLIAM EDWARD	St. Augustine, Fla., and 3330 Jefferson Ave.
HUENECKE, CHARLES ALBERT	1318 Main St.
HUERKAMP, EDWARD CHARLES	866 Rockdale Ave.
HUGHES, GERALD FRANCIS	Nunda, N. Y., and 3 Park Row
HURLBUTT, GOULD ANDERSON	Alton, Ill., and 2635 Bellevue Ave.
HURSH, FRANCIS HAROLD	Washington, D. C., and 2707 Ashland Ave.
HUSSAR, KALMAN C.	1267 Grand Ave.
IRELAND, ELLSWORTH	121 E. University Ave.
JAMES, EDWIN	1728 Freeman Ave.

JANES, EDWIN ROTH	New Albany, Ind., and 2509 Auburn Ave.
JARMAN, JOHN THADDEUS	Kasson, Minn., and 3033 Clifton Ave.
JEFFERY, HAROLD LAMONT	Piqua, O., and 3330 Jefferson Ave.
JOHNSON, DARRYL WRIGHT	2875 E. Montana Ave.
JOHNSON, EDGAR MAYER	626 Gholson Ave.
JOHNSON, GEORGE MEDARIS	604 Dayton Ave., Dayton, Ky.
JOSLIN, VERN GEORGE	Cassville, O., and 215 Lyon St.
JUDGE, JOSEPH DONALD	127 Hueston St., Hamilton, O.
JUNE, MALCOLM McCLENTHEN	74 Grand Ave., Ft. Thomas, Ky.
KARCH, HERBERT	4634 Main Ave., Norwood, O.
KAUFMAN, NATHAN	Bayonne, N. J., and 2851 Melrose Ave.
KEHM, CHARLES WENTZ	942 Columbia Ave., Newport, Ky.
KEIGWIN, HENRY SAFFORD	Mt. Vernon, N. Y., and 1228 Vine St.
KEITH, ADOLPHUS BRADLEY	Holly, Col.
KELLER, THEODORE ELDON	Muskagee, O., and 2521 Auburn Ave.
KELLY, EARL ARTHUR	300 Poplar St., Bellevue, Ky.
KEMMNER, ARTHUR CHARLES	Bloomfield, N. J., and 246 Gilman St.
KEMPER, HENRY LAWSON	970 Avondale Ave.
KENNEKE, CARL WILLIAM	312 Cooper Ave., Reading, O.
KENNY, GEVES GEORGE	Al'aise Apts., Hyde Park
KIEFNER, EDWIN LUCKEY	Perryville, Mo., and 3411 Clifton Ave.
KLAUSMEYER, DAVID MICHAEL	Kalamazoo, Mich., and 1234 Loudon Ave.
KLEIN, REUBEN	Washington, D. C., and 1301 Cypress St.
KNOOP, HERBERT DOW	944 E. McMillan St.
KOHL, EDWARD JOHN	615 Main St., Reading, O.
KOHLER, ALBEN	Montgomery, Ala., and 511 Hickory St.
KROGER, CLIFFORD JOSEPH	Gilbert and Dixmont Aves.
KRUCOFF, BARNEY	Washington, D. C., and 1301 Cypress St.
KRUMME, CHARLES SWAIN	707 Delta Ave.
KUEHNLE, GEORGE JOHN, JR.	156 Woolper Ave.
LAMPE, GEORGE JACOB	809 Overton St., Newport, Ky.
LANDER, LAWRENCE C., JR.	251 S. Williams St., Dayton, O.
LARSON, EDWARD	St. Croix Falls, Wis., and 2650 Bellevue Ave.
LASANCE, RAYMOND ALEXANDER	129 W. 14th St.
LAUTH, CLETUS GEORGE	Buffalo, N. Y., and 42 E. McMillan St.
LAY, LOUIS WILLIAM	443 Riddle Rd.
LEMING, HARPER R.	Loveland, O.
LEROY, NORMAN LEE	4114 28th St.
LEWIS, KARL EWART	7 Eden Park Terrace
LINCKE, HENRY WILLIAM	Waterloo, Ont., Canada, and 2623 Eden Ave.
LIND, JOHN EARL	5714 Madison Rd.
LINNEMAN, JOSEPH HENRY	1333 Greenup St., Covington, Ky.
LISTERMAN, WILLIAM ANTHONY	266 Van Voast Ave., Bellevue, Ky.
LONNEY, WILLIAM HUGH F.	2618 Hemlock St.
LOUIE, DIP	Kwongtong, China, and 2648 Bellevue Ave.
LUDWIG, CHARLES PHILIP	Terrace Park, O.
LUDWIG, KARL FRANK	2729 Ruberg Ave.
McANDREWS, ANTHONY FRANCIS	Indianapolis, Ind., and 849 Oak St.
McCLELLAN, CHARLES THOMPSON	863 Lincoln Ave.
McCLURE, FREDERICK WILLIAM	4204 Floral Ave., Norwood, O.
McCUNE, PAUL	2413 Ohio Ave.
McDERMOTT, JOHN RUSSELL	Middletown, O., and 2536 Auburn Ave.
McDONALD, ROBERT HENRY	3043 Hackberry St.
McGOWAN, JOHN HARRY, JR.	2345 Upland Pl.
MacLAURIN, WILLIAM MOFFETT	Dallas, Tex., and 3 The Roanoke Apts.
McMILLAN, HERVEY ROBERT	1620 Scott St., Covington, Ky.
McWHORTER, WILLIAM THOMAS	Fairmount, W. Va., and Baxter Ave.

MANSS, JOHN	Avenel Hotel, Ft. Thomas, Ky.
MARSH, DAN ARTHUR	2851 Melrose Ave.
MARTIN, NORMAN HENRY	Dayton, O., and 1211 Race St.
MATTHEI, ROBERT	Palatine, Ill., and 27 Lakewood Ave.
MASON, CHARLTON MERRIMAN	Fond du Lac, Wis., and 3110 Imperial St.
MATTERN, FRANK FILBERT	Dayton, O., and 152 W. McMillan St.
MAYNARD, LAURENCE E.	Stockport, O., and 536 Howell Ave.
MEEK, HOWARD	Louisville, Ky., and Y. M. C. A.
MEYER, EDWARD	1017 Freeman Ave.
MEYER, WILLIAM WARREN	Hamilton, O.
MILLER, DAVID	836 Windham Ave.
MILTHALER, WILLIAM CHRIS	Dayton, O., and 2650 Bellevue Ave.
MITTENDORF, WILLIAM EBERHARDT	3508 Trimble Ave.
MOON, GEORGE DONALD	Morrow, O., and 1403 Chase Ave.
MOOSE, WILLIAM MORTIMER	243 Kearney Ave.
MORRIS, DONALD	Bellfontaine, O., and 238 McCormick Pl.
MORRIS, WILLIAM STANLEY	Dayton, O., and 2650 Bellevue Ave.
MORRISSEY, JOHN FRANCIS	Fall River, Mass., and 307 Ludlow Ave.
MUELLER, CARL JACOB	4672 Hamilton Ave.
NELSON, HAVELOCK DAVID	Springfield, O., and 333 McGregor Ave.
OERLEBECK, CLARENCE PAUL	3190 Hillside Ave.
OGDEN, WILLIAM BRITTON	Milford, Ky., and 4926 Ash St., Norwood, O.
ORNES, CONRAD LAWRENCE	3204 Beredith Pl.
ORVILLE, HAROLD CURTIS	Saratoga, Wyo., and 2306 Flora Ave.
OUTCALT, GEORGE W.	5222 Ridge Ave.
OWEN, CARL WILLIAM	Fredericktown, O., and 2015 N. Main St.
PAHREN, HERBERT STEVEN	382 Terrace Ave.
PALMER, GEORGE MICHAEL	Montgomery City, Mo., and 327 Straight St.
PATTERSON, EMORY FRANCIS	Middleport, N. Y., and Fenwick Club
PAYNE, LESTER RAYMOND	520 Elliott Ave., Arlington Heights
PERKINS, JAMES SCUDDAY	Patterson, La., and 2956 W. McMicken Ave.
PERRY, HAROLD DEVEAU	Brooklyn, N. Y., and 263 Earnshaw Ave.
PEXTON, HAROLD WHITFIELD	Dayton, O., and 2667 Highland Ave.
PFEFFERLE, GEORGE HENRY	Appleton, Wis., and 150 W. McMillan St.
PIKER, SIDNEY	1355 Burdette Ave.
POHNDORF, AUGUST PETER	Butte, Mont., and 152 W. McMillan St.
POORMAN, JOEL	1357 Delta Ave.
PROBERT, EDWIN HAROLD	606 Garrard St., Covington, Ky.
PURDY, DART COLDON	Hillsboro, Ill., and 161 Kinsey Ave.
RAINS, ROBERT WALTON	Fillmore, Ind., and 2623 Kemper Lane
REED, HERMANN HUGHES	79 McCracken Ave., Newport, Ky.
REICHEL, JULIUS A. J.	Havana, Ill., and 2356 Chickasaw St.
REINHART, RALPH	Dayton, O., and 2616 Burch St.
REIS, JOSEPH	2603 Knorr Ave.
RENGERING, WILLIAM ANTHONY	37 Glencoe Pl.
RICHARD, ARTHUR MARX	520 Overton St., Newport, Ky.
RICHEY, GUY VERNON	4811 Winton Rd.
RICHMOND, HARRY STANLEY	Dayton, O., and 2650 Bellevue Ave.
RICHTER, WALTER ROBERT	Mt. Airy
RIMMER, JAMES HARRY	423 Delta Ave.
ROBB, WELDON FERDINAND	Fredericktown, O., and 2015 N. Main St.
ROBERTS, EDMUND WILLSON	3519 Middleton Ave.
ROBERTSON, CHESTER LANSING	Berea, Ky., and 238 McCormick Pl.
ROBINSON, FRANK CLARENCE	Joplin, Mo., and 3028 Woodside Pl.
ROBINSON, LOUIS CLARK	Marietta, O., and 3564 Edwards Rd.
ROCKOFF, JOSEPH	2657 Dennis St.

ROLAND, ROBERT JOHN	Richmond, Ind., and 127 Calhoun St.
ROLFES, JOHN H.	533 Milton St.
ROLL, LESLIE WILLIAM	Lebanon, O.
ROMANOWITZ, H. ALEXANDER	131 Parkway, Covington, Ky.
ROSS, WILLIAM HEARNE	Moyer Pl.
ROTH, EDWARD L.	57 W. Corry St.
ROTE, HERBERT	St. Louis, Mo., and 2956 McMicken Ave.
ROTE, ROBERT FAYETTE	Greenville, Pa.
RUBLE, FRED GEORGE	Piqua, O., and 230 W. McMillan St.
RUKEN, JULIUS	1851 Kinney Ave.
RULISON, KENNETH WILLIAM	6006 Prentice St.
RUSSAK, ALBERT ISAAC	Muskogee, Okla., and 511 Hickory St.
SANER, FRANK J.	648 Delhi Ave.
SAURER, HAROLD RALPH	Richmond, Ind., and 2657 Dennis St.
SAVOYA, CHARLES FRANK	Brooklyn, N. Y., and 15 E. McMillan St.
SCHACHT, NORMAN	3626 Zumstein Ave.
SCHEBRAT, THEODORE HERBERT	Petoskey, Mich., and 215 Lyon St.
SCHLOSSER, BENJAMIN	Louisville, Ky., and 2810 Euclid Ave.
SCHOLLE, CLARENCE GEORGE	1739 Fairmount Ave.
SCHOTTERS, FRANK ADOLPH	Indianapolis, Ind., and 443 Riddle Rd.
SCHRAMM, HENRY WALTER	Canton, O., and Central Y. M. C. A.
SCHREINER, WILLIAM JOSEPH	329 Albany Ave.
SCHROTH, HORACE PHILIP	2927 Cormany Ave.
SCHUBERT, ARTHUR WILLIAM	226 E. Rochelle St.
SCHUCK, CLEMENT J.	Harrison, O., and 2620 May St.
SCHWENKER, ALVIN EDWARD	3913 Regent Ave., Norwood, O.
SCOFIELD, GEORGE VINCENT	San Diego, Cal., and 3851 Vine St.
SCOTT, J. COLIN	Stockport, O., and 536 Howell Ave.
SCOTT, ROBERT CLYDE	405 W. Seventh St.
SEARLES, GLENN LARREN	Fond du Lac, Wis., and 3110 Imperial St.
SEIFERT, OLIVER WILLIAM	LaFayette Ave.
SESS, JOHN OTTO	618 W. Conroy Ave.
SHAW, JULIAN CLARK	2126 Gilbert Ave.
SHAW, REED AUGUSTUS	1005 E. Third St., Middletown, O.
SHAW, RICHARD CONINE	Dayton, O., and Central Y. M. C. A.
SHIELDS, WILLIAM HENRY	2303 Ashland Ave.
SIGMON, ARVIL CHESTER	Dayton, O., and 2631 Jefferson Ave.
SIMS, WILLIAM	807 Buckeye St., Hamilton, O.
SLONEKER, KENNETH AUGSPURGER	Hamilton, O., and 88 McMillan St.
SMALL, WARREN LEON	York, Pa., and 309 Ludlow Ave.
SMITH, GRAFTON ALLEN	Kansas City, Mo., and 743 E. McMillan St.
SOLLER, ARNOLD	2515 Talbott Ave.
SONNEMAN, CLIFFORD PAXTON	3915 Zinsle Ave.
SPOHN, GLENN ALTA	Collins, O., and 228 Howell Ave.
STAMPER, GARLAND	Hindman, Ky., and 2650 Bellevue Ave.
STARR, CLAYTON HERBERT	Shandon, O., and 310 Melish Ave.
STEELE, WILLIAM GRAFTON	Wheeling, W. Va., and 2382 Wheeler St.
STEINKAMP, ALBERT JOSEPH	912 Suire Ave.
STEMBEL, DAVID MAYNARD	Silver Grove, Ky.
STERMAN, ALVIN JOHN	2888 Cormany Ave.
STEVENS, JOSEPH HYLAND	Richmond, Ind., and 127 Calhoun St.
STEVENSON, DAVID H.	Loveland, O.
STRANDBERG, ALBERT RICHARD	Marshall, Tex., and 212 W. McMillan St.
STRYKER, RALPH MANÉVAL	Williamsport, Pa., and 2521 Auburn Ave.
SUHRE, ARTHUR ERNST	1120 Poplar St.
SULLIVAN, WILLIAM WALTER	2315 Krouse Ave.

SUMMERS, HAROLD D.	Cairo, W. Va., and 2707 Ashland Ave.
SWEENEY, DANIEL JOSEPH	Dayton, O.
THOMAS, ELBERT HARDING	16 Blue Grass Ave., Ft. Thomas, Ky.
THORNTON, HENRY NELSON	Nashville, Tenn., and 1525 Lincoln Ave.
THUMA, OLNEY DEAN	1016 Valley Lane
TILTON, ARTHUR RAYMOND	Lebanon, O.
TODD, FREDERICK CLIFFORD	4920 Stewart Pl.
TRAINOR, JOHN FRANCIS	Fall River, Mass., and 307 Ludlow Ave.
UNDERHILL, CHARLES REGINALD, JR.	New Haven, Conn., and 538 Howell Ave.
VANCE, CHARLES EDWARD	216 Avalon Ave.
VEATCH, MELVIN TAYLOR	Danville, Ky., and 5 E. Eighth St.
VICKERY, JAMES IVAN	North Manchester, Ind., and 3026 Harvey Ave.
VOGELSANG, LLOYD EDWARD	Canton, O., and 327 Straight St.
VOLLBRECHT, JUSTUS THOMAS	Hamilton, O., and Fenwick Club
WAHL, CLIFFORD JOSEPH	3954 Spencer Ave., Norwood, O.
WAITS, HARRY EDMUND	Camp Denison, O., and Central Y. M. C. A.
WALDO, HOWARD EDGAR	575 Considine Ave.
WALTER, WILLIAM EDMUND	Reading, Pa., and 540 W. Seventh St.
WALTHER, ALBERT DONALD	Marshall, Tex., and 212 W. McMillan St.
WASMER, CLARENCE THEODORE	1730 Pell St.
WEAVER, ALEXANDER EDWARD	Boudinot and Augusta Aves.
WEBER, ROBERT KARL	2826 Observatory Ave.
WEIL, SIDNEY PHILIP	Brooklyn, N. Y., and 2507 Auburn Ave.
WEIS, MAX CONRAD	326 Lilianthal Ave.
WEST, ARCHIBALD STEWART	Ripley, O., and 2707 Ashland Ave.
WEST, DAVID COMBS	24 Millers Lane, Ft. Thomas, Ky.
WHITE, FOREMAN RALPH	3439 Duncan Ave.
WIDMAN, ALBERT CARL, JR.	30 Hollister St.
WILKERSON, CLAUDE CRAWFORD	Covington, Va., and 2605 Eden Ave.
WILLET, HARRY RICHARDS	Alma, Mich., and 2382 Wheeler St.
WILLIMAN, GEORGE L.	Hamilton, O.
WINEGARDNER, JOHN CHALMER	Waynesfield, O., and 1046 Wiltach St.
WINSTON, ALFRED T.	Bristol, Minn., and 2667 Highland Ave.
WITTLINGER, LEONARD McLANE	Dayton, O., and 2331 Wheeler St.
WOLFSON, ERWIN SERVICE	674 S. Crescent Ave.
WOODSIDE, MATTHEW NEVIN	424 Elizabeth St.
WYATT, ARTHUR G.	Prospect, O., and 238 McCormick Pl.
YOST, JOHN SMITH	909 Monmouth St., Newport, Ky.
YOUNG, JOHN GORDON	Stonegap, Va., and 3629 Wabash Ave.
ZIEGLER, RALPH JOHN	104 W. McMillan St.

Specials

BARR, GAVIN	Summit Hill, Pa., and 1845 Josephine St.
BURGHARDT, GEORGE FRED	Milwaukee, Wis., and 2521 Auburn Ave.
DAVE, JOE	Durham, N. C., and 312 Straight St.
DRILLETTE, CARL JOSEPH	Louisville, Ky., and Fenwick Club
ENGLISH, JAMES EDWARD	Norwich, Conn., and Fenwick Club
GATCHELL, OLIVER WICKERHAM	324 Broadway
GEIS, ROBERT LeROY	115 Huntington Pl.
JONES, C. SHELLEY	Fire Tower, City Hall
KIRBY, RALPH LEONARD	Dayton, O., and 150 W. McMillan St.
LANDIS, RUSSELL HENRY	Allentown, Pa., and 2509 Auburn Ave.
MUMAW, LLOYD GERBER	Canton, O., and 2667 Highland Ave.
ZOST, STANFORD CILLEY	2536 W. Sixth St.

ENTERED SECOND SEMESTER

COOPERATIVE STUDENTS

Third Year

LEVENTON, LEWIS Pittsburgh, Pa., and 3455 Reading Rd.

First Year

ALMOND, ROBERT Fall River, Mass., and 1314 Edwards Rd.

MIKESELL, HOBART LUDLOW Chillicothe, O., and 1105 Elm St.

COLLEGE OF COMMERCE

FIRST SEMESTER

REGULAR DAY STUDENTS

ARMSTRONG, ROBERT M. Newtown, O.

BOWEN, HUGH MURRELL 3330 Jefferson Ave.

CONNOR, HELEN GLASGOW 3630 Alaska Ave.

DRUFNER, VINCENT HENRY 224 Lyon St.

EWAN, JAMES VERNER 328 Wallace Ave., Covington, Ky.

FRY, WILFRED BUCKINGHAM 3678 Kendall Ave.

HENN, JOHN STEPHEN 838 Heaton St., Hamilton, O.

HOWARD, HAZEL MAY 504 Stanley Ave.

HYSAN, HELEN MARY 213 Oak St.

KEIFER, CRUME 514 Superior Ave., Dayton, O.

KUNTZ, LOWELL 568 Maple Ave., Arlington Heights

LANSING, SAMUEL B. 3330 Jefferson Ave.

MARGOLIS, ISADORE STANLEY 708 Columbia St., Newport, Ky.

MEADOWS, JAMES BATTS 605 Overton St., Newport, Ky.

PARKER, HAROLD SHERMAN Mt. Vernon, N. Y., and 2330 Highland Ave.

PINGON, ANDRE CHARLES Vaivre, Haute Lavue, France, and 1927 Auburn Ave.

PUGH, GORDON TUCKER 182 Woolper Ave.

ROBINSON, RALPH MERSMANN 2829 Victoria Ave.

SCHWETTMAN, HARRY WILLIAM [ELA] 5209 Whetzel Ave.

EVENING STUDENTS

ADDISON, GERTRUDE EDNA 1112 Locust St.

ALEXANDER, LESTER JAMES 126 Winkler St.

ALLEN, DOUGLAS D. 27 N. Roslyn Apts.

ALLEN, JAMES RICHARD [ELA] 342 Probasco St.

ALLEN, JOSEPH MAYHEW 825 Pedretti Ave.

ARGO, BESS 6321 Savannah Ave.

ARNOLD, REINHART, JR. 3535 Stacey Ave.

AVILES, MRS. IONE 249 Goodman St.

BACKUS, ELMER WILLIAM 2359 Chickasaw St.

BAKER, MRS. EDNA MAXWELL Franklin, O., and 4 Westmoreland Apts.

BALLMAN, WILLIAM L. 3471 Knott Ave.

BARLEY, LEON CHARLES 1316 Laidlaw Ave.

BARR, EARL WALLACE	290 Mt. Pleasant Ave., Ft. Thomas, Ky.
BAXTER, FRANK ADCOCK	3414 Woodburn Ave.
BECKER, CHARLES	4226 Kirby Ave.
BECKER, FRED JOHN [ELA]	4199 Marburg Ave.
BECKER, HARRY PHILIP	602 Prospect Pl.
BEIGEL, HERBERT ARTHUR	1623 Tremont St.
BEINHART, FRIEDA MARIA	1264 Elm St.
BERBERICH, WALTER DEWEY	50 Dumfries Ave., Ft. Thomas, Ky.
BERGELT, EDWIN	2101 Vine St.
BERGER, WALTER WILLIAM	1634 Pulte St.
BERMAN, ISIDORE ALEXANDER	849 Windham Ave.
BERTING, RUTH ANN	1028 Straight St.
BEST, CARL J.	2725 Oakley Ave.
BIEHL, WILLIAM ROBERT [ELA]	2960 Massachusetts Ave.
BIERBAUM, FREDERICK A.	1028 Intermediate Ave.
BLANK, LAURA [ELA]	3420 Stettenius Ave.
BLOCH, LOUIS JOHN [ELA]	3025 Fairfield Ave.
BOHN, FRIEDA ODESSA [ELA]	17 Barclay Apts.
BOTHWELL, HOWARD KING	218 Albion Pl.
BRACKEN, ALFRED F.	3956 Spencer Ave., Norwood, O.
BRADFORD, LAWRENCE CORNELIUS	704 Vine St., Dayton, Ky.
VON BREMEN, LILLIAN RUTH	3633 Wabash Ave.
BRITE, MRS. MARY D. [ELA]	845 Dayton St.
BROCKS, FREDA E.	24 W. Thirteenth St.
BRUESTLE, FEARMAN PHILIP	North Bend Rd.
BRUNSMAN, ARNOLD L.	113 W. University Ave.
BUCK, ARTHUR HENRY	3021 Vine St.
BUEOTHER, REGINA BERTHA	1130 Carney St.
BUHR, JOHN ARTHUR	3530 Stettinius Ave.
BURKE, LOUIS	746 Terry St.
BUTLER, WILLARD JAMES	2406 Norwood Ave., Norwood, O.
CAMPBELL, RALPH THORP	2123 Slane Ave., Norwood, O.
CARLEY, THOMAS JAMES	1325 Grace Ave.
CARR, JAMES J.	139 Woolper Ave.
CARR, LUCIEN STYVENS	3534 Stettinius Ave.
CHENOWITH, HARRY BOUD	11 The Glenwood
CLANCEY, WILLIAM POWER	4 The Navarre
COHAN, ELI [ELA]	3484 Dury Ave.
CORBLY, STEPHEN [ELA]	Mt. Washington Sta.
CORDES, WALTER W.	915 Springfield Ave., Wyoming, O.
CROAKE, WILLIAM THOMAS	526 Laurel St.
CURRY, CORNELIUS JOHN	822 Kirbert Ave.
CURTIS, ALBERT HENRY	1874 Huron Ave.
DALY, LAWRENCE ANDREW	1548 Ruth Ave.
DAVIS, RAYMOND	4239 Eastern Ave.
DESMOND, JOHN JEROME	3409 Boudinot Ave.
DICKENS, MERVIN	3770 Drake Ave.
DIMMERMANN, ELMER E.	Sta. C., Kellogg Ave.
DITTRICH, CHARLES OTTO	2240 Victor St.
DOLL, WILLIS EDWARD	3528 Trimble Ave.
DOSSMAN, OSCAR JOSEPH	2899 Marshall Ave.
DRAKE, MELVIN CORDES	3630 Edwards Rd.
DROSTE, OSCAR A. [ELA]	27 Bank Ave., St. Bernard, O.
DULLE, ARTHUR GEORGE	2218 Wheeler St.
DULLE, ELMER HENRY	2218 Wheeler St.
ECKMAN, GEORGE	Sta P., R. R. No. 6, Pleasant Ridge, O.

ECKMAN, LOUIS JUSTUS	Langdon Rd., Station P
EDWARDS, LUCILLE ELIZABETH	2709 Preston St.
ELLIG, FRANK CLIFFORD	2132 Loth St.
ELSCHE, ESTELLA	82 Albert St., St. Bernard, O.
EMBSHOFF, ALBERT J.	257 Hartwell Ave.
EMERSON, GEORGE H.	3519 Beechmont Ave.
ERLE, PAULINE ANNA [ELA]	Anna Louise Inn
ERNST, HOWARD FRANKLIN	1535 Holman St., Covington, Ky.
ETTINGER, WILLIAM LOUIS, JR.	New York City and 3330 Jefferson Ave.
EVANS, ELMER OTTO	Oak Hill, O., and 210 W. 14th St.
FARLEY, JAMES DAVID	1844 Brewster Ave.
FEILER, SARAH	237 Emming St.
FIELMAN, FREDERICK GEORGE	2519 Vine St.
FISCHER, MARTHA MARIE	2415 Elberon Ave.
FISCUS, B. F.	3868 Isabella Ave.
FLANAGAN, EUGENE FRANCIS [ELA]	3212 Mozart Ave.
FLECK, FRANK BERNARD	139 Woolper Ave.
FLEDDERMAN, ROBERT FRED [ELA]	712 Clinton St.
FLYE, HARRY ORLANDO	4236 31st St., Oakley
FOERSTER, IRMA AURELIA	1881 Kinney Ave.
FORRESTER, IRVINE	805 E. Mitchell Ave.
FRANCE, EDITH GERTRUDE	315 Hawthorne Ave.
FRANTZ, WILLIAM HENRY	3500 Woodburn Ave.
GARRETSON, JOSEPH	3433 Berry Ave.
GARRISON, MARY E.	408 Broadway
GEHARDT, CLARENCE N.	735 Steiner Ave.
GEHART, GUSTAV E.	2319 Flora St.
GERWE, WALTER JOHN	3559 Wabash Ave.
GEYLER, ETHEL LILLIAN	1342 Asper Pl.
GIESENBERG, CARL JOHN	3499 Boudinot Ave.
GOERING, ALBERT WILLIAM [ELA]	31 E. McMicken Ave.
GOLDSTEIN, OSCAR	3157 Harvey Ave.
GREBER, HENRY HIRAM [ELA]	Box 174, Winton Rd.
GUCKENBERGER, EDGAR FREDERICK [ELA]	3469 Brookline Ave.
HAFT, JACOB LOUIS	24 Forest Ave.
HALL, ALBERT LOYD	6002 Bramble Ave.
HALL, LEONA	31 Lombardy Bldg.
HALLER, HUGO A.	2213 Victor St.
HAMMANN, HERBERT H.	2186 Central Ave.
HANEY, RUTH ALMA [ELA]	3331 Glenway Ave.
HANSEN, MARGARET	3638 Trimble Ave.
HARD, MARIE	11 Erie Ave.
HARVEY, CORWIN S.	512 E. Second St., Newport, Ky.
HASENOHR, THEODORE CHRISTIAN	2329 Vine St.
HAUCK, PAUL GEORGE	93 Park Ave., Ludlow, Ky.
HEALY, RUFUS A. [ELA]	357 Beech Ave., Wyoming, O.
HEINBUCH, RUFUS	3636 Shaw Ave.
HEINLEIN, JACOB WESLEY	2590 Trade St.
HEINRITZ, FREDERICK JOHN	2123 Sinton Ave.
HENDRICK, HAROLD RICHARD	3334 Hillside Ave.
HERNDON, SAMUEL	2392 Wheeler St.
HIGGINS, HUGH PRATT	2110 St. James Ave.
HILLER, CARL A.	2307 Ohio Ave.
HIRSCHHORN, BERNARD SAMUEL [ELA]	3671 Alter Pl.
HOFF, FRIEDA EMMA	407 Mohawk St.
HOFFMAN, LOUIS JOHN [ELA]	3542 Michigan Ave.

HOGAN, JAMES CLIFFORD	4267 Williamson Pl.
HOGAN, MICHAEL JOHN	210 Bosley St.
HOLOCHER, CLARENCE [ELA]	222 Mulberry St.
HOMAN, JOSEPH HERMAN	2411 Columbia Ave.
HUGHES, GEORGE ROSSER	3903 Columbia Ave.
JACKMAN, JULE	1316 Locust St.
JAFFE, STANLEY ALVIN	818 Hutchins Ave.
JEGLEY, HENRY HERMAN	311 W. 19th St., Covington, Ky.
JOHNSON, GLENN HAYES	2270 Adams Ave., Norwood, O.
JONES, RUTH	1704 Highland Ave.
KAMMAN, LOUIS WILLIAM	1809 Young St.
KARCHER, JOHN PAUL	2832 Observatory Rd.
KEELOR, HELEN GANO	3623 Stettinius Ave.
KELLER, CHARLES JOSEPH [ELA]	827 Betts St.
KELLER, LAWRENCE P.	310 Cleveland Ave., St. Bernard, O.
KESTNER, WILLIAM JOHN PHILIP	200 W. McMillan St.
KING, EDNA ELIZABETH	304 Oak St.
KIRKPATRICK, EDGAR EARL	1336 Cryer Ave.
KNOPF, JOHN WALKER	2757 Madison Rd.
KOENIG, GEORGE WILLIAM	251 W. McMillan St.
KOENIG, WILLIAM HABEKOTTE	2846 May St.
KOESTER, WILLIAM HENRY	Box 177, Windsor Rd.
KREYEN, OLIVER WILLIAM	239 McGregor Ave.
KUHN, JOSEPH	2161 Central Ave.
LAMPING, RAYMOND JOHN	3432 Monteith Ave.
LANGE, BERTHA ELIZABETH	907 Armory Ave.
LATHROP, CHARLES EUGENE	2 Harris Bldg., Norwood, O.
LAUBER, FRANK EDWARD	Rapid Run Pike
LAWLESS, HOWARD THOMAS [ELA]	3138 Durrell Ave.
LEEVEY, SAMUEL T.	2700 Park Ave.
LEFFLER, EDNA MARGRETTA	945 W. Court St.
LIPPERT, O. C. F.	1601 Freeman Ave.
LOEB, ARTHUR SIDNEY	829 Rockdale Ave.
LOEB, MARTHA	829 Rockdale Ave.
LOHN, GEORGE LEROY	3568 Trimble Ave.
LOTH, LEOPOLD R. [ELA]	851 Rockdale Ave.
LUECKE, HARRY	4458 Colerain Ave.
LUSHEY, GEORGE LEROY	4907 Calvert St.
LYLE, HORACE PEACHY	1014 Chapel St.
MCCABE, HELEN CAMILLE	630 Greenwood Ave.
MCCAFFERY, THOMAS WILLIAM	3336 Graydon Ave.
MCCLURE, C. E. [ELA]	Vincennes, Ind.
MCDOWELL, FRANCIS EDMUND	2111 Dana Ave.
MCINTYRE, ARTHUR E.	178 Rockaway Ave.
MCJOYNT, THOMAS LEE [ELA]	2700 Park Ave.
MADSEN, JOHN	1529 Lincoln Ave.
MARKS, SHELDON BRYANT	Erlanger, Ky.
MARRIOTT, WEBER EUGENE	3626 Woodbridge Pl.
MARVIN, JOHN HOWARD	640 June St.
MARZ, THEODORE WILLIAM	9 Crane Apts., Erie Ave.
MATTOX, BENJAMIN LYLE	410 Tusculum Ave.
MEAD, CHARLES SANFORD [ELA]	Michigan Ave. and Madison Rd.
MERS, WILLIAM HENRY	438 Klotter Ave.
MESCHER, HENRY ALPHONSE	728 York St., Newport, Ky.
MEYER, CURT JOHN	3542 Liston Ave.
MEYER, EDA [ELA]	2807 Montana Ave.

MEYER, KATHERINE	3571 Colerain Ave.
MICHAELS, LOUVENIA [ELA]	229 Wedgewood Ave.
MILLER, JOHN O.	3555 Evanston Ave.
MILLS, H. BATSON	3829 Huntington Ave., Latonia, Ky.
MIRES, FRANK CHALMERS	3215 Vine St.
MITTELSDORF, DOUGLAS CLARK	950 Elberon Ave.
MORELAND, GERTRUDE	1851 Clarion Ave.
MORGENSTERN, HANNAH MOLLIE [ELA]	520 Hickman Ave.
MURRAY, CHARLES WALTER, JR.	4910 Lloyd Ave., Norwood, O.
NEUMANN, ROBERT ANTHONY	3010 Scioto St.
NEWMAN, JOSEPH FRANK	26 W. Liberty St.
NIEHAUS, JOHN WILLIAM	3536 Wabash Ave.
NIELSON, GEORGE [ELA]	1947 Sutton Ave.
NIEMAN, EDNA SOPHIA	1517 Baymiller St.
NIGMAN, EARL THOMAS	1611 Brewster Ave.
OBERHELMAN, CARL	2947 Colerain Ave.
O'KANE, RALPH CURRY	1344 Burdette Ave.
O'NEIL, JOSEPH A.	3557 Lossing Ave.
ORTNER, LILLIE BELLE	306 Sycamore St.
OSTERMAN, CLEMENS WILLIAM	435 Pioneer St.
OSTERMAN, JOSEPH	2617 Columbia Ave.
OTTE, GRIFFITH EMMETT	3514 Stacey Ave.
OVERMANN, ELSIE HENRIETTE [ELA]	2861 Winslow Ave.
OVERMANN, MARIE HENRIETTA [ELA]	2861 Winslow Ave.
PAPE, JOHN WESLEY	2861 Harrison Ave.
PATZOLD, JOHN BRITENSHAW	2416 Morton Ave., Norwood, O.
PETIT, EDWIN WILLIAM	1220 Yarmouth Ave.
PETTY, LEROY CLINTON	170 Grand Ave., Ft. Thomas, Ky.
PFEIFER, SIMON ARTHUR	832 Lexington Ave.
PHILLIPS, CECIL ST. JOHN	705 York St., Newport, Ky.
PIERLE, EDWIN F. [ELA]	350 Howell Ave.
POE, EDITH C. [ELA]	2707 Cleinview Ave.
POPE, WALDORF ADRIAN	Tusculum and Vineyard Pl.
PORTE, HARRY W.	Ohio Military Institute
PRIEBE, CEDRIC JOSEPH	623 June St.
RAU, ERWIN THEODORE	6337 Meis Ave.
REIS, ALFRED THOMAS	135 Winkler St.
REIS, FRED [ELA]	3150 Reading Rd.
RICHARDSON, CHARLES BOUSELL	3903 Isabella Ave.
RIES, CLARA ELIZABETH	2083 Harrison Ave.
RITZI, WILLIAM HENRY	14 Juergens Ave.
ROEHR, ALVIN	3839 Mt. Vernon Ave.
ROHRER, DAISY [ELA]	3551 Shaw Ave.
ROLL, WILLIAM JOHN FRANCIS	2821 Linwood Rd.
ROSENBERG, ROBERT	809 Cleveland Ave.
ROSENTHAL, MAX PAUL	651 Richmond St.
ROTHFUSS, GEORGE PAUL	124 Albert St., St. Bernard, O.
SAPPER, RAYMOND BENJAMIN	4732 Glenway Ave.
SARRAN, WALLACE EDMOND	3228 Observatory Ave.
SCHAEFER, MARCUS GORDON	3467 Brookline Ave.
SCHAFSTALL, WALTER	3218 Burnet Ave.
SHELL, CLARENCE RIEDER	2700 Scioto St.
SCHEPER, ANTHONY J.	2405 W. McMicken Ave.
SCHMAL, ARMIN V. [ELA]	53 E. McMicken Ave.
SCHOENEBAUM, JOHN HENRY	1608 Main St.
SCHOENECKER, JOSEPH M.	210 Klotter Ave.

SCHRAFFENBERGER, STRIEDER	109 W. Charlton St.
SCHUCHARDT, ARTHUR LEOPOLD	691 N. Crescent Ave.
SCHULMAN, BERNARD	3851 St. Lawrence Ave.
SCHULTE, ERIC L.	9 Mercer St.
SCHUSTER, HERMAN WILLIAM	1770 Carl St.
SCHWARTZ, SAMUEL	2625 Cleinview Ave.
SEITZ, GEORGE ARTHUR	1017 Lockman Ave.
SEMPLE, BEN P.	218 W. Fourth St., Covington, Ky.
SHAFFER, HERBERT	1305 Meier Ave.
SHAPPELL, ELMER	2335 Fairview Ave.
SHOENBERGER, CHARLES HANKS [ELA]	222 Greendale Ave.
SIMPKINSON, EWART WOODRUFF	1114 Cross Lane
SINGER, CHARLES ANDREW	2615 Cleinview Ave.
SLEEVYS, JENNIE LOUISE	3328 Spokane Ave.
SPIES, EDWIN BENEDICT	279 W. McMicken Ave.
SPIESS, CARL W. [ELA]	1240 Quebec Rd.
SPIEVACK, ALBERT [ELA]	3438 Wilson Ave.
SPILLER, EDWIN W.	6750 Commercial Ave.
SPOHR, OSCAR AUGUST	2729 Scioto St.
STEWART, HAROLD CLARK	1852 Columbia Ave.
STOBER, MARTIN JOSEPH	1987 Madison Rd.
STORK, JOHN AMAN	4205 Kirby Ave.
STRAUSS, ALBERT ISAAC	Dakota Ave.
SUHRE, RUDOLPH WILLIAM	3038 Daytona Ave.
SURRAN, ARNOLD LEE	2625 Cleinview Ave.
SWEENEY, HOWARD THOMAS	1864 Hewitt Ave.
TIEMEYER, HELEN	2251 Flora St.
UHLING, GEORGE HERBERT	8069 Anthony Wayne Ave.
VAILE, HORACE WILLIAM	118 W. Nixon St.
VANDERBILT, GEORGE	1134 Sherman Ave.
VOLZ, FELICITAS	2373 Wheeler St.
WALDMANN, MARGARET ANNA	406 Elliot Ave., Arlington Heights
WALDRIP, GERTRUDE MAY	5 Korte Apts., Woodburn and Blair Aves.
WARREN, WILLIAM ULYSSES	630 E. Third St., Newport, Ky.
WEIS, FRIEDA PEARL [ELA]	2540 Vine St.
WEISSHAAR, CARL ANTHONY	4686 Hamilton Ave.
WENZEL, EDWARD BERNARD	3046 Bracken Rd.
WIESER, O. F.	2143 Clifton Ave.
WIESSLER, FRED	419 E. Liberty St.
WILSON, ROBERT BENTLEY	Y. M. C. A., Covington, Ky.
WITTE, GEORGE ALBERT	815 Academy Ave.
WOLLENBERG, EDMUND GEORGE [ELA]	270 Dorchester Ave.
WOODRUFF, DUDLEY P.	1823 Hewitt Ave.
WULFHORST, WILLIAM EDWARD	26 E. Rochelle St.
WURST, HOWARD MUENCH	1343 Broadway
WURST, JOHN STANLEY	1343 Broadway
WEISBROD, FRED WILLIAM HENRY	3755 Dirr Ave.
WYKOFF, JOHN EDWARD	19 W. Nixon St.
YOUNG, ALVAH HOBART	3756 Regent Ave., Norwood, O.
ZINK, CARL ANDREW	3315 Wabash Ave.
ZOBEL, RALPH PETER	227 Emming St.
ZUMBIEL, GEORGE THEODORE	3867 Isabella Ave.

ENTERED SECOND SEMESTER

EVENING STUDENTS

THAIN, CHARLES W.	322 11th St., Newport, Ky.
ZIEGLER, EDWIN ADAM	327 W. 11th St., Newport, Ky.

COLLEGE OF MEDICINE

FIRST SEMESTER

REGULAR STUDENTS

Seniors

ADELSTEIN, FRED	10312 Adams Ave., Cleveland, O. <i>Adelbert College, 1913-16</i>
ASBURY, ESLIE	Campbellsburg, Ky. <i>B. S., University of Cincinnati, 1918</i>
BEATTY, ERNEST NUTTER	R. F. D. No. 7, Lexington, Ky. <i>State University of Kentucky, 1914-15, 1915-16; Ohio State University, College of Homeopathic Medicine, 1916-17, 1917-18, first semester</i>
BRIGHAM, VERNON D. [ELA]	Robinson, Ill. <i>University of Illinois, 1912-13; University of Indiana, 1914-15</i>
BRITENBURG, EARL M.	3119 Harvey Ave. <i>B. S., Ohio Wesleyan University, 1916</i>
BROWN, ABRAHAM	Morgantown, W. Va. <i>B. S., West Virginia University, 1918</i>
BUSCHING, HOWARD ELLSWORTH	504 Walnut St., Elmwood Place, O. <i>B. S., University of Cincinnati, 1918</i>
DEPPEN, EARL NEAGLEY [ELA]	1110 Reagon St., Sunbury, Pa. <i>Bucknell University, 1913-14, 1914-15</i>
DONAHUE MATTHEW THOMAS	30 Butler St., Ludlow, Ky. <i>B. S., University of Cincinnati, 1918</i>
FRIEDRICH, JR., CHARLES	4510 Homer Ave. <i>University of Cincinnati, 1913-14, 1914-15</i>
HAAS, ALBERT LARRY	22 E. Third St., Covington, Ky. <i>University of Cincinnati, 1914-15, 1915-16</i>
HACHEN, DAVID SAMUEL	857 Blair Ave. <i>B. S., University of Cincinnati, 1918</i>
HOHMAN, LOUIS MATHIAS	2338 Clifton Ave. <i>B. S., University of Cincinnati, 1918</i>
HORN, KARL WILLIAM	Lewisburg, O. <i>B. S., University of Cincinnati, 1919</i>
JONES, JAMES GUY	20 Apollo St., Petersburg, Va. <i>B. S., University of Cincinnati, 1918</i>
KEHOE, ROBERT ARTHUR	Georgetown, O. <i>B. S., University of Cincinnati, 1918</i>
KENKEL, HENRY FRANK	Sta. L, R. F. D. No. 2, Box 12, Bridgetown, O. <i>A. B., St. Xavier College, 1915; B. S., University of Cincinnati, 1918</i>
KILBANE, CORNELIUS VINCENT	10707 Clifton Blvd., Cleveland, O. <i>A. B., Niagara University, 1915</i>
KNIGHT, MARY SADELIA	4520 Erie Ave. <i>B. S., University of Chicago, 1918</i>
LINTON, FRANK TERRY	R. R. No. 5, Jamestown, O. <i>B. S., Wilmington College, 1915</i>
LOCKWOOD, KENNETH LEROY	11 East 12th St., Covington, Ky. <i>B. S., University of Cincinnati, 1918</i>
LYLE, ALICE FRANKLIN	203 Woolper Ave., Clifton <i>A. B., University of Cincinnati, 1916; B. S., Ibid., 1918</i>
McDOWELL, EDWARD STUDHOLME	469 Hamilton St., Albany, N. Y. <i>B. S., Dartmouth College, 1918; Ibid., Medical School, 1916-17, 1917-18; School of Medicine, Columbia University, 1918-19</i>

- MCINTYRE, HOWARD DIXON Carlisle, Ky.
Transylvania College, 1912-13, 1913-14; *State University of Kentucky*, 1914-15,
 1915-16
- McKHANN, GEORGE GRASSEL Oxford, O.
A. B., Miami University, 1916
- MASON, EDWARD CHARLES 1204 N. Jefferson St., Springfield, Mo.
A. B., Drury College, 1914; *School of Medicine, St. Louis University*, 1915-16,
 1916-17; *Rush Medical School*, autumn 1917, winter, spring and summer
 quarters, 1918
- MOLINDER, SAMUEL GARVIN 805 Central Ave., Covington, Ky.
University of Cincinnati, 1914-15, 1915-16
- NEWMAN, RUSH CARL Spencer, W. Va.
B. S., West Virginia University, 1918
- PAYNE, CLYDE CLARKSON Fairmount, Ind.
B. S., University of Cincinnati, 1918
- RAY, JR., VICTOR 3584 Mooney Ave.
University of Cincinnati, 1914-15, 1915-16; *University of Chicago*, summer quarter,
 first term, 1917
- ROBERTS, VERNON BRADLEY 520 Carplin Place
University of Cincinnati, 1914-15, 1915-16
- ROGERS, WILLIAM RAYMOND 308 E. Second St., Newport, Ky.
B. S., University of Cincinnati, 1918
- RUNYAN, WILLIAM MCKAY R. D. No. 6, Springfield, O.
Wittenberg College, 1914-15, 1915-16
- SCHERR, WILLIAM BURKHART 35 S. Walnut St., Morgantown, W. Va.
West Virginia University, 1914-15, 1915-16
- SEXTON, MARSHALL CULLEN Rushville, Ind.
B. S., University of Cincinnati, 1918
- SMITH, HERBERT NELSON R. F. D. No. 3, Brookville, Ind.
Indiana State Normal School, spring, 1911; *University of Chicago*, autumn quarter,
 1913; winter quarter, 1914; spring quarter, 1915; *Indiana University*, 1914-15
- STACK, ROBERT ANTHONY HENRY 1124 Fifth St., Lorain, O.
Notre Dame University, half a year; *Adelbert College*, 1914-15, 1915-16
- STRAEHLEY, CLIFFORD JOHN 812 Dayton St.
A. B., Harvard College, 1917
- STRAEHLEY, ERVIN MILLER 812 Dayton St.
A. B., Harvard College, 1916
- SUTTON, JOHN FRANKLIN 2337 Fifteenth St., N. E. Canton, O.
Mt. Union College, summer courses, 1914-15; *Mt. Union College*, 1915-16
- TORRENCE, JOHN FERGUSON 2515 Auburn Ave.
Purdue University, 1914-15, 1915-16
- TURNER, CLIFTON SHERWOOD 201 S. Adams St., Peoria, Ill.
Bradley Polytechnic, 1913-14, 1914-15; *Rush Medical School*, 1915-16
- WALKER, ROBERT BRYON Meyersdale, Pa.
B. S., Pennsylvania College, 1913
- ZEIGLER, JEROME Maysville, Ky.
University of Michigan, 1913-15

Juniors

- BENZING, JR., GEORGE 625 Ludlow St., Hamilton, O.
A. B., University of Michigan, 1918
- BRUMLER, ARTHUR KARL 1512 Fifth St., Portsmouth, O.
A. B., Ohio Wesleyan University, 1917

- BRAMMER, FRED EMERSON Cheasapeake, O.
Valparaiso University, summer course, 1908; three quarters, 1911-12; Ohio University, 1915-16; summers, 1915-16
- CASSADY, EVERETT S. Belpre, O.
B. S., University of Cincinnati, 1919
- CONWELL, HALFORD FREDERICK 270 Chestnut St., Xenia, O.
B. S., University of Cincinnati, 1919
- COOK, GEORGE HARVEY Oxford, O.
Miami University, 1915-17; University of Cincinnati, summer course, 1917
- CORPRON, DOUGLAS SQUIRE Yakima, Wash.
University of Oregon, 1914-15, 1915-16; Medical School, University of Michigan, 1916-17, 1917-18, 1918-19
- DAVIS, DAVIS CARSON 2114 Fulton Ave.
B. S., University of Cincinnati, 1919
- DAVIS, PARVIN MILTON New Albany, Ind.
B. S., Indiana University, 1919; School of Medicine, Indiana University, 1917-18, 1918-19
- DOWNING, HAROLD FRANCIS Peebles, O.
A. B., Miami University, 1919
- DRACHENBERG, HARRY 829 Cleveland Ave.
B. S., University of Cincinnati, 1919
- FELTER, LLOYD KING 1728 Chase Ave.
University of Cincinnati, 1915-17
- FLIPSE, MATHEW JAY 124 W. Twelfth St., Holland, Mich.
A. B., Hope College, 1917
- FOSTER, THEODORE FRANK 3301 Clifton Ave.
University of Cincinnati, 1915-17
- FRAAS, CLARENCE LEROY 33 Helena St., Dayton, O.
B. S., University of Cincinnati, 1919
- GANIM, JOSEPH NICHOLAS 1308 Broadway
B. S., University of Cincinnati, 1919
- GUTIERREZ, DARIO Bogota, Colombia, S. A.
B. S., Colegio del Rosario, Bogota, Colombia, S. A.
- HANNAH, HEWITT-BLAIN Addyston, O.
A. B., Miami University, 1917
- HENDRICKSON, FLOYD CHESTER 238 Piedmont St.
B. S., University of Kansas, 1918; Ibid. University of Kansas School of Medicine, 1916-17, 1917-18; S. S., Ohio State University, 1918; University of Chicago, spring and summer quarters, 1919
- HOWELL, HAROLD HARRY Philippi, W. Va.
B. S., West Virginia University, 1919
- HUSTON, JAMES MALLERNEE 2700 Vine St.
University of Southern California, 1912-15
- JONES, HERBERT CLAIBORNE 431 Washington St., Petersburg, Va.
University of Cincinnati, 1915-17; University of Chicago, summer course, 1917
- KOEHLER, WILLIAM AUGUSTUS 27 Lakewood Ave.
B. S., University of Cincinnati, 1919
- KUHN, HUGH ALVA Lore City, O.
B. S., University of Cincinnati, 1919
- KYMMEL, AUGUST 7 View Place
A. B., Muncie National Institute, 1917
- LACAMERA, FRANK 947 Fruit Ave., Farrell, Pa.
Grove City College, 1914-15; Ohio State University, 1916-17
- LANDE, FRANK 3503 Reading Rd.
University of Cincinnati, 1915-17
- LAVENDER, HERMAN LEON Burnet and Union Aves.
B. S., University of Cincinnati, 1919

- LINDNER, JOSEPH 8358 Wisswell Ave., Hartwell, O.
A. B., *Miami University*, 1917; B. S., *University of Cincinnati*, 1919
- MACDEVITT, LESTER WILLIAM 275 McCormick Place
University of Cincinnati, 1913-14, 1914-15
- MALONE, HERBERT PATRICK 411 E. Walnut St., Lancaster, O.
Ohio Wesleyan University, 1914-17
- MALONEY, JOHN JAMES 576 Considine Ave.
A. B., *St. Xavier's College*, 1917; *School of Medicine, St. Louis University*, 1917-18,
1918-19
- MILLER, BLANCHE BONSAK Eglon, W. Va.
B. S., *University of West Virginia*, 1919
- MILLER, HAROLD CLAYTON Eglon, W. Va.
B. S., *University of West Virginia*, 1919
- MINICH, PAUL RUST North Hampton, O.
A. B., *Willenberg College*, 1915
- MUSEKAMP, GEORGE HENRY 3919 Harrison Ave., Station L
University of Cincinnati, 1915-17
- NESBIT, ORVAL ISAAC Albion, Ind.
A. B., *University of South Dakota*, 1919
- NEWCOMB, PAUL BARKLEY West Unity, O.
University of Michigan, 1914-16
- PICKERAL, FRED BEVERLY Wichita, Kansas
Friends University, 1913-14, 1914-15, 1915-16; *Ibid.*, summer course, 1917
- PIECK, CARL EDWARD 523 Main St., Covington, Ky.
University of Cincinnati, 1912-13; second semester, 1916; and 1916-17
- PILLIOD, JOHN VICTOR Grand Rapids, O.
St. John's University, 1915-16; *Toledo University*, 1916-17; *University of Michigan*
Medical School, 1917-18
- PIRRUNO, MATTHEW CLARENCE 1556 Fifth St., Portsmouth, O.
Ohio University, 1915-17
- PRICE, JAY 14109 Northfield Ave., Cleveland, O.
A. B., *Adelbert College*, 1919; *Western Reserve University, School of Medicine*,
1918-19
- RAAP, GERARD 2489 Paris Ave.
A. B., *Hope College*, 1916
- ROBINS, JOSEPH EDWIN 1319 Virginia St., Charleston, W. Va.
B. S., *University of Cincinnati*, 1919
- SCHUITEMAN, EDWARD Fremont, Mich.
A. B., *University of South Dakota*, 1919
- SHAFFER, CLARENCE JOSEPH 4637 Smith Rd., Norwood, O.
University of Cincinnati, 1915-17; summer, 1916
- SHOOK, HUBERT HERMAN St. Joe, Ind.
Willenberg College, 1914-17
- SMITH, VINCENT VANHORN 131 Wayne Ave., Lockland, O.
Ohio Wesleyan College, 1914-15; first semester, 1915-16; second semester, 1916;
summer, 1916; *Ohio State University*, one semester, 1916-17
- SOMMER, LOUIS Harrodsburg, Ky.
B. S., *University of Cincinnati*, 1919
- STRIKER, CECIL 214 E. Seventh St., Covington, Ky.
B. S., *University of Cincinnati*, 1919
- SUDHOFF, PAUL GERHARDT 3405 Clifton Ave.
University of Cincinnati, 1915-17
- TALBOTT, SAMUEL FORD Frenchton, W. Va.
Shepherd College, West Virginia Wesleyan University, 1914-15; *West Virginia*
University, 1917-18; *Ibid.*, *School of Medicine*, 1918-19
- TUCKER, ELDON BRYANT Morgantown, W. Va.
B. S., *West Virginia University*, 1919

- UNSINGER, HAROLD FARQUHAR Fremont, O.
A. B., *Heidelberg University*, 1916; *Western Reserve University*, 1917-18; *Ibid.*,
1918-19, first semester
- VONDERAHE, ALPHONSE RALPH 4260 Leonard Ave., St. Bernard, O.
A. B., *St. Xavier College*, 1916; B. S., *University of Cincinnati*, 1919
- WAGNER, GERARD HARR 1521 Huffman Ave., Dayton, O.
B. S., *University of Cincinnati*, 1919
- WILKE, GERARD THOMAS Maria Stein, O.
B. S., *University of Cincinnati*, 1919
- WOODBURN, LEMUEL ANSEL Urbana, O.
A. B., *Wittenberg College*, 1913; A. M., *Ibid.*, 1917; *Western Reserve University*,
1917-18
- WYLIE, CHARLES ANDREW 3151 Van Buren St.
B. S., *Drake University*, 1913
- ZEVALKINK, RICHARD 854 Caulfield Ave., Grand Rapids, Mich.
A. B., *University of South Dakota*

Sophomores

- BECK, FRANK TILDEN 2642 Stanton Ave.
Ohio Wesleyan University, 1915-16; *University of Cincinnati*, 1916-17, 1917-18;
summer term, 1918
- BENNETT, FRANCIS PAUL Damascus, O.
A. B., *Mt. Union College*, 1916; *School of Medicine, Western Reserve University*,
1918-19
- BROWN, ALBERT LOUIS 3476 Harvey Ave.
University of Cincinnati, 1916-17, 1917-18; summer term, 1918
- BRUEGGEMANN, WILLIAM HENRY 1308 Republic St.
University of Cincinnati, 1915-16, 1916-17, 1917-18; summer term, 1918
- DAVIS, WILBUR LOUIS 11 N. Summit St., Dayton, O.
Otterbein College, 1915-16, 1916-17; *University of Cincinnati*, summer term, 1918
- DILLON, MARY ALLEN Fairmount, Ind.
A. B., *Earlham College*, 1914; *University of Cincinnati*, 1917-18; *ibid.*, summer term,
1918
- *DUPLAIX, GEORGES Paris, France, Rue Ernest Cresson, No. 18
- FRASER, JOHN ALLEN R. F. D. No. 2, Wellsville, O.
Ohio Wesleyan University, 1914-15, 1915-16, 1916-17, 1917-18
- GAKEE, JR., LOUIS WILLIAM 1228 Laidlaw Ave.
University of Cincinnati, 1916-17, 1917-18; *Ibid.*, summer term, 1918
- GUEST, GEORGE MARTIN 709 E. Chestnut St., Hoopeston, Ill.
Ohio Wesleyan University, 1916-17, 1917-18
- HARDIN, GEORGE LEON Alma, Neb.
University of Nebraska, 1915-16, 1916-17
- HENDRICKS, ELLIOTT M. 3105 Paxton Rd.
University of Cincinnati, 1916-17, 1917-18; *Ibid.*, summer term, 1918
- HENDRICKS, LOUIS JOSEPH 4218 Franklin Ave., Norwood, O.
University of Cincinnati, 1916-17, 1917-18; *Ibid.*, summer term, 1918
- JONES, GWENDOLYN ANNA 57 Mt. Pleasant Ave., Ft. Thomas, Ky.
University of Cincinnati, 1916-17, 1917-18; *Ibid.*, summer term, 1917
- KECK, HERMAN [LA] 3595 Outlook Ave.
University of Cincinnati, 1916-17, 1917-18; *Ibid.*, summer term., 1918
- KREIMER, ALBERT GEORGE 2901 Erie Ave.
A. B., *University of Cincinnati*, 1916
- KRONACHER, REGINE JOAN 765 Greenwood Ave.
A. B., *Wellesley*, 1917

- LEECH, CHARLES HOYT New London, O.
Ohio Wesleyan University, 1916-17, 1917-18; *summer course, Ohio State University*, 1918
- LUNGER, GUERNSEY REINER 294 Franklin St., Marion, O.
Miami University, 1916-17, 1917-18; *Ibid.*, *summer term*, 1918
- MCCLURE, GEORGE WILLIAM Louisa, Ky.
Ohio Wesleyan University, 1916-17, 1917-18; *Ohio State University*, *summer term*, 1918
- MCINTYRE, AURELLA PLACK (MRS.) Carlisle, Ky.
Miami University, 1914-15, 1916-17, 1917-18; *University of Cincinnati*, *summer term*, 1917
- McKHANN, JR., CHARLES FREMONT 2515 Auburn Ave.
A. B., Miami University, 1918
- MILLER, HOWARD BRYSON Hartford City, Ind.
Indiana University, 1915-16, 1916-17; *Ibid.*, *School of Medicine*, 1917-18
- MILLER, MAURICE IRVING [E.L.A.] Delta, O.
Ohio Wesleyan University, 1915-16, 1916-17, 1917-18; *Ibid.*, *summer term*, 1918
- MUSKAT, MYER SALMEN Marietta, O.
Marietta College, 1916, *one semester*; *University of Cincinnati*, 1916-17, 1917-18; *Ibid.*, *summer term*, 1917
- PAUL, WILLIAM CORNELIUS 3140 Vine St.
University of Cincinnati, 1913-18
- PAVY, ODRA S. Greensburg, Ind.
Franklin College, 1912-13, 1913-14, 1917-18
- PORRAS, LORENZO PEDROSO Jaro, Iloilo, P. I.
L.L. B., Valparaiso University, 1917; *A. B., Ibid.*, 1917; *Ohio State University*, 1917-18; *University of Cincinnati*, *summer term*, 1918
- REED, HORACE EDWIN 807 Lincoln Ave.
University of Cincinnati, 1916-17, 1917-18; *Ibid.*, *summer terms*, 1917 and 1918
- RIDDLE, CHARLES KENNETH Lawrenceburg, Ind.
University of Indiana, 1915-16, 1916-17; *Ibid.*, *School of Medicine*, 1917-18, 1918-19, *first semester*
- RITENOUR, ALMER DANIEL Jeffersonville, O.
A. B., Ohio Wesleyan University, 1915
- SCHIRRMANN, HAROLD ALFRED 1412 Gallia St., Portsmouth, O.
University of Cincinnati, 1916-17, 1917-18; *Ibid.*, *summer term*, 1918
- SHELTON, VIOLETTA GILMAN [MRS.] [E.L.A.] 3250 Burnet Ave.
University of Cincinnati, 1916-17, 1917-18; *Ibid.*, *summer terms*, 1917-18
- SLUTSKY, HYMAN 3 LeRoy Court
University of Cincinnati, 1915-16, 1916-17
- SWEPTON, EMIL RAWN 525 Considine Ave.
University of Cincinnati, 1916-17, 1917-18
- TEMPLETON, WAYNE KING Greensburg, Ind.
Indiana University, 1915-16, 1916-17; *Ibid.*, *School of Medicine*, 1917-18, 1918-19, *first semester*
- VESTER, WALTER CHARLES 2235 Burnet Ave.
A. B., St. Xavier College, 1915; *University of Cincinnati*, 1917-18; *Ibid.*, *summer terms*, 1916 and 1918
- WILZBACH, CARL ALBERT 108 Valencia St.
University of Cincinnati, 1916-17, 1917-18; *Ibid.*, *summer term*, 1918. 1918-19 *first semester*
- WYNN, JUSTICE FARLESS Providence, Ky.
Transylvania College, 1914-15, 1915-16, 1916-17, 1917-18 *first semester*; *University of Cincinnati*, Feb., 1918, to June, 1918
- ZELIGS, MENDEL 820 W. Court St.
University of Cincinnati, 1916-17, 1917-18; *Ibid.*, *summer term*, 1918

Freshmen

- *ALLARD, LORENZO DOW R. D. No. 7, Lucasville, O.
Ohio State University, 1916-17, 1917-18; first semester and summer session, 1919
- ANDERSON, HARRY FORD Morrow, O.
Miami University, 1917-18, 1918-19; summer session, Western Reserve University, School of Medicine, 1919
- BECKES, ELLSWORTH WELTON 414 Broadway, Vincennes, Ind.
Indiana University, 1916-17, 1917-18, 1918-19
- BEEKS, FRANKLIN CONE 120 S. Main St., Oxford, O.
A. B., Miami University, 1917
- BELL, HARRY GLENN Hillsboro, O.
Miami University, 1916-17, 1917-18; summer session, University of Cincinnati, 1919
- BELLAMY, CURTIS FRANKLIN 927 Chillicothe St., Portsmouth, O.
Miami University, 1917-18, 1918-19
- BOGEN, EMIL 3306 Milton Court
University of Cincinnati, 1914-15, 1915-16, 1916-17; Columbian College, 1917-18
- BUTT, WILLIAM JOSEPH Elkhart, Kansas
University of Cincinnati, 1914-15, 1915-16, 1916-17; summer sessions, 1915, 1916, 1919
- CARMEL, ABRAM GERSON 513 Richmond St.
University of Cincinnati, 1917-18, 1918-19
- CHILDERS, ASHER THEODORE Salem, W. Va.
B. S., West Virginia University, 1915
- COMSTOCK, GLENN EDWARD 213 Seventh St., Logansport, Ind.
Indiana University, 1916-17, 1917-18, 1918-19
- COOK, MALCOLM ORR Oxford, O.
Miami University, 1916-17, 1917-18, 1918-19
- DAVIDSON, HARRY ORVEL Portsmouth, O.
Miami University, 1917-18, 1918-19
- *DAVIS, CHARLES L. Smithton, W. Va.
West Virginia Wesleyan, 1914-15, 1915-16, 1916-17, 1917-18
- DAY, HORACE ASA Treadway, Tenn.
University of Tennessee, 1917-18, 1918-19
- DORMIRE, HERMAN FLOYD Pemberton, O.
Miami University, 1917-18, 1918-19, summer session, 1919
- DORST, STANLEY ELWOOD 49 E. Ward St., Springfield, O.
A. B., Wittenberg College, 1919
- ERBAUGH, GORDON LESLIE 2904 W. Third St., Dayton, O.
Ohio State University, 1914-15, 1915-16, 1916-17
- FREDERICK, CLARENCE HENRY 449 Washington Ave., Lorain, O.
Adelbert College, 1917-18; University of Cincinnati, 1918-19
- FRICKMAN, OSCAR WILLIAM 724 York St., Newport, Ky.
University of Cincinnati, 1917-18, 1918-19
- FRIEDMAN, LEO SAMUEL 3592 Wilson Ave.
University of Cincinnati, 1917-18, 1918-19
- GIERINGER, LLOYD R. R. No. 1, Cleves, O.
University of Cincinnati, 1917-18, 1918-19
- GILLEN, HAROLD WILLIAM Wellston, O.
A. B., Ohio University, 1917
- GILLESPIE, THADDEUS REAMY [LA] 670 June St.
University of Cincinnati, 1916-17, 1917-18
- HAWORTH, ELDRID A. West Milton, O.
Ohio State University, 1917-18, 1918-19

*Withdrawn

- HENDRICKSON, ANNA McNALLEY (MRS.) 238 Piedmont St.
Kansas University, 1915-16, 1916-17; summer session, Ohio State University, 1918;
summer and spring quarters, University of Chicago, 1919
- HILDEBRAND, ROY DALLAS [LA] Newcomerstown, O.
Ohio State University, 1917-18, 1918-19
- HOYER, ALBERT BENJAMIN CHARLES 1122 Central Ave., Newport, Ky.
University of Cincinnati, 1916-17, 1917-18; summer session, 1919
- HUFFMAN, GEORGE RICHARD 1823 Greenup St., Covington, Ky.
A. B., Transylvania College, 1917
- HYDE, WILLIAM HUBERT Nelsonsville, O.
Ohio Wesleyan University, 1916-17, 1917-18, 1918-19; summer sessions, Ohio State
University, 1918, 1919
- JULIAN, CORNELIO DATO 1900 Taft Rd.
A. B., Ohio Wesleyan University, 1919
- *JUSTICE, CHARLES WHEELER Fish Trap, Ky.
University of Kentucky, 1917-18, 1918-19
- KITZMILLER, KARL VIVIAN 340 McGregor Ave.
University of Cincinnati, 1917-18, 1918-19
- KOETTER, GEORGE FRANK Chicago, Ill.
Michigan Agricultural College, 1915-16, 1916-17
- KRATZ, WILLIAM JOSEPH 1012 Second National Bank Bldg.
Lewis Institute, Chicago, Ill., 1916-17
- LEE, OLIVE PEARL Frederickstown, O.
A. B., Ohio University, 1919
- MCCOOL, WILLIAM FRANKLIN [ELA] 1001 Linwood Ave., Evansville, Ind
Indiana University, 1913-14, 1914-15, 1915-16, 1916-17
- MATHEWS, JAMES STEWART Dale Rd.
University of Cincinnati, 1916-17, 1917-18; Ohio State University, 1918-19
- MITCHELL, PRESCOTT TALMAN 823 Cleveland Ave.
University of Wisconsin, 1914-15, 1915-16, 1916-17
- MORTON, WILLIAM ARNETT Eastern and Strader Aves.
University of Cincinnati, 1916-17, 1917-18
- NAVIN, WALTER MARTIN Okolona, O.
Notre Dame, 1916-17; Ohio University, 1917-18, 1918-19
- NIELANDER, JOSEPH RICHARD 19 Ohio Ave., Ft. Thomas, Ky.
University of Kentucky, 1917-18, 1918-19 (first semester); University of Cincinnati,
1919 (second semester)
- NIGH, LEONARD CAROTHERS Carey, O.
Wittenberg College, 1915-16, 1916-17, 1917-18
- PHILLIPS, ROYAL ASHAR 126 W. 70th St.
A. B., University of Cincinnati, 1917
- PINSKY, BENNIE 21st St., Bellaire, O.
Ohio State University, 1916-17, 1917-18
- POETKER, KARL ERNEST Portsmouth, O.
Miami University, 1917-18, 1918-19
- PULLEN, EDWARD MARKEY 719 Fremont St., Fulton, N. Y.
University of Kentucky, 1916-17, 1917-18; University of Cincinnati, Jan., 1919-
June, 1919
- REES, HOWARD CARL Rising Sun, O.
Miami University, 1917-18, 1918-19
- ROADS, HOMER DUDLEY Hillsboro, O.
Ohio Wesleyan University, 1916-17, 1917-18, 1918-19
- ROCKWELL, GEORGE EDMUND Wakeman, O.
University of Cincinnati, 1916-17, 1917-18

ROUSE, MRS. GLADYS LOUISA	232 Oak St. A. B., <i>University of Cincinnati</i> , 1913
SALTZMAN, JACOB	10931 Tacoma Ave., Cleveland, O. <i>Adelbert College</i> , 1914-15, 1915-16, 1916-17
SCHAFER, DONALD W.	Agros, Ind. <i>Indiana University</i> , 1916-17; <i>Valparaiso University</i> , 1918-19
SCHUM, CARL JOHN	Brookville, Ind. <i>University of Cincinnati</i> , 1915-16, 1916-17, 1917-18
SCOTT, THOMAS GEORGE	4324 Forest Ave., Norwood, O. <i>Purdue University</i> , 1917-18; <i>University of Cincinnati</i> , 1918-19; <i>summer session</i> , <i>Ohio Wesleyan</i> , 1919
SELTZ, SAMUEL	1011 Freeman Ave. <i>University of Cincinnati</i> , 1917-18, 1918-19
SEMONS, BENJAMIN COLEMAN	108 E. University Ave. <i>University of Kentucky</i> , first semester, 1916-17; <i>Southern California</i> , second semester, 1916-17; <i>University of Cincinnati</i> , 1917-18; <i>summer session</i> , 1919
SMITH, EARL MCCALL	Bucyrus, O. B. S., <i>Denison University</i> , 1917
SPECKMAN, RUSSELL NEWTON	868 E. Chestnut St., Coshocton, O. <i>University of Michigan</i> , 1914-15; <i>Ohio State University</i> , 1915-16, 1916-17
STACE, LEONARD ANTHONY	1124 Fifth St., Lorain, O. A. B., <i>Holy Cross College</i> , 1919
STEIN, ELICK	1634 Vine St. <i>University of Cincinnati</i> , 1917-18, 1918-19
STEIN, JOSEPH	526 W. Sixth St., Newport, Ky. <i>University of Cincinnati</i> , 1917-18, 1918-19
STEVENSON, FRANK EARL	R. F. D. No. 5, Circleville, O. A. B., <i>Miami University</i> , 1919
THOMAS, MARY LOUISE	1846 Brewster Ave. A. B., <i>University of Cincinnati</i> , 1913
THURMAN, HUBERT	3352 Elland Circle <i>West Virginia Wesleyan University</i> , June, 1918; August, 1919
TURNER, WILLIAM BLOUNT	20 Apollo St., Petersburg, Va. <i>Randolph-Macon College</i> , 1916-17, 1917-18, 1918-19
VAN HOOSE, HAROLD	2642 Stanton Ave. <i>University of Cincinnati</i> , 1917-18, 1918-19
WALKER, ROBERT COULTER	Santa Fe, Tenn. A. B., A. M., <i>University of the South</i> , 1915, 1916
WALKOW, MAX BENJAMIN	Wheeling, W. Va. <i>University of Oklahoma</i> , 1915-16, 1916-17, 1917-18, 1918-19
ZINKAN, THOMAS EARL	431 S. Woodlawn Ave., Lima, O. <i>Indiana University</i> , 1915-16, 1916-17, 1917-18

IRREGULAR STUDENTS

Juniors

INSKEEP, MAHLON JOHN	1810 Garrard St., Covington, Ky. <i>University of Cincinnati</i> , 1914-17
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Sophomores

CHERRINGTON, MAYNARD STEELE	117 Prospect St., Bowling Green, O. <i>Ohio Wesleyan University</i> , 1914-15, 1915-16, 1916-17, 1917-18; <i>University of Cincinnati</i> , summer term, 1918
ZWICK, GEORGE HOLLIDAY	19 W. Seventh St. A. B., <i>University of Cincinnati</i> , 1918

SPECIALS

KING, EDWARD, M.D.,	.....	Traction Bldg.
LONGNECKER, GLADYS	.....	Cincinnati, O.
OLIVER, SYMMES F., M.D.	.....	Berkshire Bldg.
PFEFFERKORN, BLANCHE	.....	General Hospital
RATLIFF, THOMAS, M.D.	.....	Grandview Sanitarium
TYREE, DORA	.....	112 Malvern Pl.
<i>B. S., Martha Washington College, 1911; University of Cincinnati, summer session,</i>		
1918, 1918-19; <i>summer session, 1919</i>		
WEIDENSALL, CLARA JEAN	.....	3250 Burnet Ave.
<i>A. B., Vassar, 1903; Ph. D., University of Chicago, 1910</i>		
ZIELONKA, SAMUEL	.....	214 W. Seventh St.

GRADUATES

BELL, WILLIAM H. (G)	.....	2637 Alms Place
BETTMANN, MARIAN R. (G)	.....	3593 Bogart Ave.

ENTERED SECOND SEMESTER

REGULAR STUDENTS

Seniors

HATHAWAY, GEORGE JARVIS	.....	510 Essex St., S. E., Minneapolis, Minn.
<i>University of Minnesota, 1912-13, 1913-14; Ibid., Medical School, 1914-15, 1915-16,</i>		
1916-17		

Freshmen

MUNNS, GEORGE F.	.....	Oxford, O.
<i>Miami University, summers 1914, 1915, 1918, 1919; academic years, 1915-16,</i>		
1916-17, 1917-18, 1918-19		
SAH, NAND LAL	.....	Lucknow, India
<i>Canning College, 1913-14, 1914-15, 1915-16; Allahabad University, India</i>		

SPECIALS

INGALS, MARY	.....	Chicago, Ill.
KANDAL, PHOEBE, R. N.	.....	Cincinnati General Hospital
MADDOCK, STEPHEN C.	.....	1545 Ruth Ave.
MILLS, CLARENCE A.	.....	301 Hearne Ave.
VANCE, RAYMOND F.	.....	140 W. University Ave.

SCHOOL OF NURSING AND HEALTH

CANDIDATES FOR CERTIFICATE IN PUBLIC HEALTH NURSING

BAILEY, EUNICE ETHYLN, R.N.	.....	McWhorter, Ky.
<i>Diploma of Graduate Nurse, University of Cincinnati, 1918</i>		
DOOLEY, ELIZABETH, R.N.	.....	358 Howell Ave.
<i>Diploma of Graduate Nurse, Jewish Hospital School of Nursing of Cincinnati, 1907</i>		

- FOSTER, PARTHENIA KATHARINE, R.N. 3301 Clifton Ave.
B. S., University of Cincinnati, 1919; Diploma of Graduate Nurse, University of Cincinnati, 1919
- PORTER, SUSAN CAROLINA, R.N. 3321 Carthage Ave.
Berea College, 1915-16; Diploma of Graduate Nurse, University of Cincinnati, 1919
- SHIPMAN, MARY, R.N. 2510 Gilbert Ave.
Western College, 1900-01; Diploma of Graduate Nurse, Christ Hospital School of Nursing of Cincinnati, 1915

CANDIDATES FOR BACHELOR OF SCIENCE DEGREE AND DIPLOMA OF GRADUATE NURSE

Pre-Nursing and Post-Nursing Students in the College of Liberal Arts

- BOHLMAN, MINNIE AUGUSTA West Alexandria, O.
- MOTE, NEVA PAULINE 518 N. Ash St., Piqua, O.
- NEUMAN, EMMA WINONA 603 North St., Lima, O.
- SELLEW, GLADYS 1603 E. McMillan St.
A. B., University of Cincinnati, 1918

Third-Year Students in the School of Nursing and Health

- BATEY, KATHARYN Racine, O.
- BEAGLE, LOLA Marietta, O.
- BLAIR, HELEN STEARNS 2495 Madison Rd.
Columbia University, summer, 1914; Thomas Normal School, first semester, 1914-15
- BENHAM, CARRIE ANNA Troy, O.
A. B., Oberlin College, 1910
- BUTLER, FLORA LOUISE (ELA) 22 Lamar Ave., Selma, Ala.
- CHANNEY, MARY EVELYN 10828 South Western Ave., Chicago, Ill.
B. S., The University of Chicago, 1912
- CLARK, MARJORIE Medina, O.
Oberlin College, 1913-14, 1914-15, first semester, 1915-16
- DAVIS, BEULAH AMELIA Marietta, O.
Marietta College, 1915-16
- DENSFORD, KATHERINE JANE Crothersville, Ind.
A. B., Miami University, 1914; A. M., The University of Chicago, 1915
- EDWARDS, AMY VAUN New Matamoras, O.
- EMERSON, HULDAH Box 383, Loveland, O.
- HELLINGS, MARION (ELA) 702 N. Howard St., Union City, Ind.
- JAMESON, MARY ELIZABETH Cynthiana, Ky.
- KELTNER, IRENE LOU 12 N. Tenth St., Hamilton, O.
Ohio State Normal School; Miami University, summers, 1912, 13, 14, 15, 16, 17
- MACY, RHODA ELMA (ELA) 401 N. Walnut St., Union City, Ind.
- MARKWITH, HELEN BETTY Greenville, O.
- MCCORMICK, HOLLIS ANN Box 298, Huron, O.
- NEAL, PHYLLIS SHATTUCK 1010 Murdock Ave., Parkersburg, W. Va.
- NESBIT, GRACE IRENE R. R. No. 2, Casstown, O.
- NEUMAN, EMMA WINONA 603 North St., Lima, O.
University of Cincinnati, summer, 1919
- RANSOHOFF, ESTHER 2929 Vernon Pl.
A. B., Vassar College, 1916
- RARDON, SARAH LOUISE 3769 Pennsylvania Ave.
- ROUSH, SCIOTO BELLE 720 Seventh St., Portland, O.

- SELLEW, GLADYS 1603 E. McMillan St.
Columbia University, summer, 1916; A. B., University of Cincinnati, 1918; University of Cincinnati, first semester, 1919-20
- SHIPLEY, SADIE ONEITA (ELA) 239 Lincoln Ave., Marion, O.
- SLONAKER, MARY LOU Farmland, Ind.
- SMITH, AVA BERNADINE Ross, O.
Miami University, 1916-17
- SOWERS, MABLE EUGENIA Goshen, Ind.
- STIVERS, BURDETTE IRMA Cherry Fork, O.
- TUCKER, HELEN MAE 1119 Broadway, Logansport, Ind.
- WALMER, FLORENCE TAIT (ELA) 518 S. Main St., Bluffton, Ind.
De Pauw University, first semester, 1911-12; Randolph Macon Woman's College, 1912-13, first semester, 1913-14
- WENING, LULU CAROLYN Lowell, O.
- WESTCOTT, ELINORA TENNANT Batavia, O.

Second-Year Students in the School of Nursing and Health

- ADDICOTT, GERTRUDE IRENE 116 North Oakland Ave., Sharon, Pa.
- ALEXANDER, ADDIE FRANCES 402 Broadway, Everett, Mass.
University of Cincinnati, 1917-18
- ANSON, MARY FRANCES Akron, O.
- BECKETT, ALICE Hamilton, O.
University of Wisconsin, second semester, 1917-18
- BENHAM, CASSA CORNELIA Troy, O.
A. B., Oberlin College, 1915
- BLOCK, BEATRICE FRANCES 3025 Fairfield Ave.
A. B., Wellesley College, 1918
- BRIDGE, CHARLOTTE ELIZABETH Franklin, O.
- BUSCHE, MARGARET JEANETTE Columbus Grove, O.
Ohio State University, 1916-17, first semester, 1917-18
- CALDWELL, GENEVIEVE 828 Beecher St.
A. B., University of Cincinnati, 1915
- CRAMER, HESTER NAOMIA Edenton, O.
- DOHERTY, CECIL HAZEL Montgomery, O.
University of Cincinnati, second semester, 1916-17, 1917-18
- EVANS, NELLIE IRENE Letts, Ind.
- FERGUS, GERTRUDE 712 Fourth Ave., N. Great Falls, Mont.
University of Montana, 1916-17, 1917-18
- FINDLAY, ERMA LUELLA Collinsville, O.
- GOLDSTEIN, ROSE 3322 Augusta Ave., Cheviot, O.
- GRANLUND, AURORA CHRISTINA St. Mary's Ave., Sidney, O.
- HART, HELEN GLADYS 6010 Prentice St.
Greencastle, Ind.
- HASPEL, BERTHA Greencastle, Ind.
A. B., De Pauw, 1909
- HEROLD, LULA BRYAN Huntersville, W. Va.
- HEUSER, WILLIE IRVINE Beckley, W. Va.
Graduate New Haven Normal School for Gymnastics, 1916
- HOGUE, HERMENA JOSEPHINE 230 Crafton Ave., Dayton, O.
- JELLISON, GLADYS MARGARET West Alexandria, O.
- JOHNSTON, MARY JANET 113 Huntington St., Montpelier, Ind.
De Pauw, 1914-15, 1915-16
- KELSO, MARY MILDRED Sabina, O.
A. B., Ohio State University, 1915

LANGE, KATHERINE HENRIETTA	1366 Ernst St.
LEAHY, MARY CHRISTINA	403 S. Union St., Natchez, Miss.
LUKEMIRE, BARBARA	Williamsburg, O.
<i>Miami University, summers, 1917, 18; University Extension, 1917-18</i>	
McKINNEY, GLADYS JEANETTE	Newtown, Ind.
<i>B. S., Wooster College, 1918</i>	
MEAGLE, SADIE CATHERINE	830 Front St., Marietta, O.
METCALFE, DOROTHY EUNICE	Hess Apts., Wyoming, O.
MILLER, EMMA LYDIA	5728 Arnsby Pl.
MOOREHOUSE, DOROTHY HENRIETTE	Montgomery, O.
<i>Agnes Scott College, 1914-15, 1915-16</i>	
MORGAN, CATHARINE FRANCES	516 N. Division St., Union City, Ind.
MOTE, NEVA PAULINE	518 N. Ash St., Piqua, O.
<i>University of Cincinnati, summer, 1919</i>	
OCHS, ESTHER MAY	Lancaster, O.
ROWLEN, MARY PANCAKE	189 N. Main St., London, O.
<i>Ward Belmont College, 1916-17; Ohio State University, 1917-18</i>	
RICHARDSON, ADELAIDE	Glendale, O.
<i>University of Cincinnati, 1917-18</i>	
SLATER, MARGUERITE	1800 Greenup St., Covington, Ky.
STARTSMAN, ELIZABETH MARJORIE	Terrace Park, O.
STEINHARDT, ANNE VIRGINIA	312 Montgomery St., Marietta, O.
STICKNEY, HELEN BURTON	7029 Longview St.
<i>University of Cincinnati, 1916-17, 1917-18</i>	
STOCKWELL, DONNA LUCRETIA	Mechanicaburg, O.
WHEELER, JULIA WICKES	247 Church St., Poughkeepsie, N. Y.
<i>Columbia University, summer, 1915</i>	
YOUNT, AGNES RAMSEY	Sayler Park, O.
<i>A. B., Smith College, 1915</i>	

First-Year Students in the School of Nursing and Health

ARMSTRONG, BERNICE	St. Mary's, O.
<i>Miami University, summer, 1918</i>	
BENDER, EMILY ELIZABETH	731 Seventh St., Portsmouth, O.
BINDLEY, RUTH KATHERINE	9 Blue Grass Ave., Ft. Thomas, Ky.
BINGLE, DORIS AUGUSTA	124 Lyon St.
<i>A. B., University of Cincinnati, 1911</i>	
BUTTERFIELD, YVONNE LILLIAN	Shandon, O.
CAMPBELL, MARJORY GENEVEA	337 Sixth St., N. E., Canton, O.
DAVIDSON, MARGARET ANDREWS	McConnelsville, O.
<i>A. B., Wellesley, 1918</i>	
DIEHL, CLARA	504 E. 120th St., Cleveland, O.
DURBIN, MARY NANCY	Bellville, O.
<i>Ohio State Normal, summers, 1914, 1916</i>	
FABER, MARION JULIA	1638 N. Glen Oake Ave., Peoria, Ill.
<i>A. B., Leland Stanford Jr. University, 1910; University of Chicago, summer, 1913;</i>	
<i>University of Wisconsin, summer, 1915</i>	
FERNSTROM, HELMA JOSEPHINE	Ogallala, Neb.
<i>Northwestern University, first semester, 1916-17, first semester, 1917-18</i>	
GESTEL, CLARA ELIZABETH	Hopkintown, Ia.
<i>Upper Iowa University, summers, 1914, 15, 16, 18</i>	
HEGLER, HELEN VIRGINIA	3175 Linwood Rd.
HEINISCH, WILHELMINA ALICE	Vanceburg, Ky.
HIBBERT, IDA LYNETTE	527 Arden Pl., Toledo, O.
LLOYD, WILMA FLETCHER	4830 N. Troy St., Chicago, Ill.
<i>Indiana University, 1917-18</i>	

MANNINGTON, MARY ELEANORE	115 N. Detroit St., Xenia, O.
<i>Miami University, 1918-19</i>	
MEYER, GLADYS BERYL	Merrim, O.
PHILBROOK, ROBERTA CYNTHIA	Cardington, O.
<i>Wooster College, summer, 1912</i>	
PRICKETT, MARGERY MARIE	Fayette, O.
<i>Denison University, 1917-18, 1918-19</i>	
REEHL, FLORA HILDA	960 E. Pearl St., Miamisburg, O.
<i>Oberlin College, summer, 1912; Wittenburg College, 1916</i>	
TRACY, MARY JEAN	10 California St., Zanesville, O.
WARRINGTON, EMILY	112 E. First St., London, O.
WAYNE, BESSE MAE	R. F. D. No. 6, Bellefontaine, O.
WORK, EVA ELIZABETH	932 Morris St.
<i>University of Cincinnati, 1917-18</i>	

SPECIAL STUDENTS

APGER, MARY LOUISE	North Baltimore, O.
BLACK, IRENE JEANNETTE	218 West Laus Ave., Seymour, Ind.
ERMAN, BEATRICE HELEN	211 Forest Ave.
GREER, NORA VIRGINIA	R. F. D. No. 1, Roanoke, Ind.
HASLITT, IDA MARGARET	1007 N. 4th St., Marquette, Mich.
HAUK, KATHRYN MAE	207 W. Water St., Piqua, O.
KERNAN, ESTHER BEATRICE	Tiffin, O.
LOZIER, ETHEL MARIE	Etna Green, Ind.
QUINLAN, ELLEN DOROTHY	3206 Columbia Ave.
RACE, GENEVIEVE STEWART	3130 Harvey Ave.
SCHELL, OLIVE ANN	711 E. Third St., Greenville, O.
WEBER, MARGARET DOROTHEA	R. F. D. No. 3, Springfield, O.
WOLFSTEIN, THERESE	847 Glenwood Ave.

AFFILIATED STUDENTS

ABBOTT, MARY LOUISE	902 Dayton St., Hamilton, O.
ANDERSON, MAE	Route 5, Sunbury, O.
BAIR, MARGARET E.	Findlay, O.
BEARDSLEY, BESSIE M.	Dale, Ind.
BOCKSTAHLER, FLORENCE VIOLA	Dale, Ind.
BORG, LILLIAN	Piqua, O.
BOVEY, IVADELL	Ostrander, O.
BRADFORD, HILDA MARGARET	Butler, Ky.
BROWER, RUTH E.	Milford, O.
BROWN, BERTHA AMELIA	Callaghan, Va.
BROWN, EDITH ROMANE	Lancaster, O.
BROWN, JULIA BELLE	Hamilton, O.
BROWN, LEAH ECKFELDT	R. F. D. No. 3, Van Wert, O.
BRUBAKER, GERTRUDE MANILA	Bloomdale, O.
BRUCE, DELLA	120 S. 14th St., Richmond, Ind.
BURRELL, HELEN BEE	830 E. Sandusky St., Findlay, O.
CASTLE, ELMA LEONA	230 Uhler Ave., Marion, O.
CASTLE, EVA IONA	230 Uhler Ave., Marion, O.
CLARK, LILLIAN MAY	Saginaw, Mich.
COLLINS, HELEN BARNUN	1010 Harrison Ave., Jeffersonville, Ind.
COOK, IRENE ARMINA	321 Silver St., Bannockburn, Ill.
CUNNINGHAM, EDNA LUCILLE	R. F. D., Miamisburg, O.
CURRAN, ESTHER CATHERINE	4158
DANIELS, ALLIE EMILY	3 Lookout Ave., R.

DANNECKER, MILDRED JEANETTE	122 E. Raymond St., Van Wert, O.
DENTON, RHEA ROZELIA	Lancaster, O.
DUFFY, RUTH WILSON	Rockdale, Tex.
ELLINGHAM, DEANE	417 Miller St., Bluffton, Ind.
EMERSON, WILLIE BELLE	Spring Garden, Ala.
ESCHMEYER, BERTHA ELIZABETH	New Bremen, O.
EVANS, DORIS MAY	Prospect, O.
FISCHBACK, VERONICA MARIE	1604 Sycamore St.
FORAKER, MARY GERTRUDE	Wayne Ave., Woodlawn, O.
FOSTER, MAY BELLE	20 East 10th St., Rome, Ga.
FRANKEL, BEATRICE	3438 Dury Ave.
GATCH, GRACE MARIE	Milford, O.
GENHEIMER, MARIE	208 Mulberry St.
GERARD, GRACE ELIZABETH	Ft. Wayne, Ind.
GLOUB, MARGUERITE	1402 Charters St., New Albany, Ind.
GOODSON, KATHERINE LEE	108 Bridge St., Cartersville, Ga.
GRIMPE, HESTER JOHANNA	Warsaw, Ill.
HALL, GLADYS MADELYN	Clyde, O.
HAMRICK, SHIRLEY NANCY	422 Park St., Cedartown, Ga.
HAND, MARY LOUISE	Tippecanoe City, O.
HANSBOROUGH, HELEN REICHERT	Cincinnati, O.
HARRIS, MARY ELLEN	724 Linden St., Fremont, O.
HARROD, AUDA ANNA	Harwood, O.
HEIMAN, MARION GERTRUDE	1631 Herbert Ave.
HEISCHBERG, CORINNE JULIA	3121 Harvey Ave.
HEISCHMANN, BARBARA JANE	Honor, Mich.
HERBERT, RUBY BEATRICE	"Elvin Grove," Wheeling, W. Va.
HERMAN, RUTH	Zanesville, O.
HETRICK, NELLIE MAY	Oxford, O.
HOLLETT, SYLVIA BELLE	Stockport, O.
HOOK, MARTHA RUTH	Piqua, O.
HUPHREY, NAOMI ELIZABETH	Patriot, Ind.
HUNT, LINNIE FLORENCE	203 Irving St., Toledo, O.
KANABLE, LUCILLE CHIQUITA	319 Walnut St., Findlay, O.
KAPPES, MARY ELIZABETH	134 Maholm St., Newark, O.
KETCHAM, NINA BELLE	Moore's Hill, Ind.
KERR, CLYTA MARY	Ashley, Mich.
KISER, MARY LUCILLE	Piqua, O.
KOLB, LEONA	3418 Monteith Ave.
KRIEGENHOFER, EVA MARGUERITE	R. R. No. 3, Hamilton, O.
LACKE, ALICE JANE	Bergland, Mich.
LAUBE, GERTRUDE GENEVIEVE	343 Putman St., Findlay, O.
LINK, HELENA ANN	246 N. D St., Hamilton, O.
MACARLANE, REBECCA	Oconto, Wis.
MCCLYMON, RUTH ISABEL	5642 Ridge Ave.
MCCOLLUM, CLEMANCE JANE	Albion, Ill.
MCCONNEL, MILDRED CHANDLER	Mt. Olivet, Ky.
MCDANIELS, CECIL MAE	East South St., Sidney, O.
MCGROMLEY, ELSIE MAE	R. R. No. 1, Fremont, O.
McKITRICK, JENNIE ELIZABETH	Newport, O.
MARLATT, RUTH EUGENIA	Richmond, Ind.
MAYER, THELMA KATHERINE	503 Riddle Rd.
MILLAND, MARY CATHERINE	Piqua, O.
", (MRS.) LUCIA	Huntsville, Ala.
", GRACE OLIVE	Chillicothe, O.
", ADELAIDE	1008 Linden Ave., Middletown, O.
", MYRTLE LOVELETTE	Station 1, Ashland, Ky.

MITCHELL, ELSIE	3312 Bevis Ave.
MITCHELL, THELMA GARNET	Third St., Marietta, O.
MONGEY, ELZANNE MARIE	Piqua, O.
MONROE, GOLDIE	Pennsboro, W. Va.
MONTGOMERY, MINNIE EVELYN	Cave Springs, Ga.
MOORE, (MRS.) JOHN RANDOLPH	Georgetown, O.
MOORE, LIDA MAUD	Xenia, O.
MORRISON, NINA AUGUSTA	337 Washington St., Xenia, O.
MOWRY, ELMA LUCILE	Celina, O.
MURPHY, MILDRED	Kings Mills, O.
MURRAY, GOLDIE SUE	Boon Mill, Franklin County, Va.
MURRAY, MARGARET AGNES	Sharonville, O.
NAST, KAROLINE	Cincinnati, O.
O'CONNELL, MAYME	Lexington, Ky.
OWENS, MAE VELMA	Attala, Ala.
PAYNE, KATHERINE ELIZABETH	4438 Hamilton Ave.
PAYNTER, MARY ELIZABETH	246 Putnam Ave., Zanesville, O.
PERRINE, MARY EDITH	4132 Carter Ave., Norwood, O.
PETERMANN, FLORENCE LOUISE	5725 Prentice St.
PETERSON, COSEY MAE	Findlay, O.
POWELL, GLADYS MAE	Milan, Ind.
RANKIN, HELEN	1449 Aster Pl.
ROBERTS, LILLIAN FLORENCE	Cedartown, Ga.
ROEBUCK, SADIE MARTHA	Dunbar, Pa.
ROGERS, RIVA LAURA	Saginaw, Mich.
ROSE, MARY ELIZABETH	Findlay, O.
ROSE, NELLIE MAYE	Lexington, Ky.
RUMMEL, LOUISE MARIE	642 E. Third St., Newport, Ky.
RUSK, CORA	Los Angeles, Cal.
SAMPLES, WREN	1829 Hammond St., Chicago, Ill.
SCHLESTETT, INEZ	Box 610, Cedartown, Ga.
SCHOLL, ELIZABETH ANN	Reynoldsville, Pa.
SEGMILLER, PAULINE GRACE	919 Seventh Ave., Altoona, Pa.
SHINKLE, RACHEL MARY	Oxford, O.
SILVERNAIL, ELEANOR PHIDELLA	Talladega, Ala.
SMITH, CATHERINE CELESTIA	69 N. Franklin St., Delaware, O.
SMITH, GRACE IRMA	Route 1, Box 7, Amsterdam, O.
SMITH, MARY ESTELLE	904 W. Grace St., Richmond, Va.
SNEDAKER, (MRS.) MATTIE FRANCES	La Grange, Ky.
SNIDER, IDA	Lima, O.
SOMMERS, SOPHIE FRIEDERIKA	1277 Thoreau Rd., Lakewood, O.
SPENCER, LILLIAN BELVA	Muddility, W. Va.
STEARNS, HELEN ELIZABETH	Weston, Wood County, O.
STEELE, HELEN SLADE	La Fayette, Ga.
STIRLING, EDITH	246 Gilman St.
SUTHERLAND, MINNIE GLENN	St. Albans, W. Va.
SWETZTER, JEANETTE	66 N. Sandusky St., Delaware, O.
VORBAN, RUTH AGNES	Swanton, O.
WALKER, ISABEL GATES	Zanesville, O.
WEIL, JANETTA	216 Catoma St., Montgomery, Ala.
WELLS, JESSIE CORINE	Marietta, O.
WETZELL, ARIE MARZELLA	R. F. D. No. 1, Waverly, W. Va.
WHITE, AGNES CATHERINE	Harrison, O.
WILDERMUTH, MARY ANNA	R. R. No. 1, Jackson Center, O.
WILSON, MARY LOUISE	5863 Wayside Ave., Mt. Washington, O.
WILSON, VAN STATA	Middletown, O.
WORSTELL, ELEANOR BELLE	Short Creek, Harr County, O.
WRIGHT, JULIA RANKIN	Cochran, Ga.

COLLEGE OF LAW

REGULAR STUDENTS

Third Year

CASH, ALBERT D.	208 Hearne Ave. <i>A. B., St. Xavier College</i>
COHEN, PHILIP A.	3557 Reading Rd. <i>A. B., University of Cincinnati</i>
DEMPSEY, JOHN C.	551 Purcell Ave. <i>A. B., Yale University</i>
GRAYDON, FRANK S.	Lafayette Circle <i>A. B., Harvard University</i>
ISAACS, ELCANON [CC]	3264 Delaware Ave. <i>A. B., University of Cincinnati</i>
KORNER, FREDERICK JAY	1025 High St., Hamilton, O.
KREITER, LOUIS H.	Galion, O., and Y. M. C. A. <i>Ohio State University</i>
LEE, MORRIS	3320 Perkins Ave. <i>A. B., University of Cincinnati</i>
MEYER, JOHN A.	2030 Auburn Ave. <i>A. B., University of Cincinnati</i>
PFAU, PHILIP A.	3400 Glenway Ave. <i>University of Cincinnati</i>
WEICK, CHARLES P.	Youngstown, O., and Fenwick Club <i>University of Michigan</i>
WEINBERGER, LEO [CC]	867 Hutchins Ave. <i>A. B., University of Cincinnati</i>
WESCO, AARON	620 Heaton St., Hamilton, O.
WITHERBY, HOWARD T.	2030 Auburn Ave.
WOOD, MARSHALL B.	28 Blue Grass Ave., Ft. Thomas, Ky. <i>University of Kentucky</i>

Second Year

ADLER, MRS. JESSIE	2637 Alaska Ave. <i>A. B., University of Cincinnati</i>
BRIGGS, MISS NETA L.	Belle Center, O. <i>Ohio State University</i>
CLOSS, MISS REGINA B. [ELA]	3446 Whitfield Ave. <i>University of Cincinnati</i>
CRONE, PAUL J.	1261 First Ave. <i>A. B., St. Xavier College</i>
FEIL, EDWARD J.	Dayton, O., and 2920 Gilbert Ave. <i>A. E. F.</i>
FEIST, KARL A.	East Liverpool, O., and 2149 St. James Ave. <i>A. E. F.</i>
FREY, CARL WILLIAM	1922 Knox Ave. <i>University of Cincinnati</i>
GLENN, PERRY L.	4100 Wetsel Ave. <i>A. E. F.</i>
HARLAN, WALTER R.	Middletown, O. <i>Miami University</i>

- HOPKINS, WILLIAM F. 77 W. McMillan St.
University of Cincinnati
- JORDAN, EDWARD B. 2812 Madison Rd.
A. E. F.
- KEARNS, GEORGE E. 1629 Argyle Pl.
A. B., *St. Xavier College*
- KOODISH, MAURICE H. 844 Windham Ave.
University of Cincinnati
- LYTLE, LAWRENCE R. 2030 Auburn Ave.
A. B., *University of Cincinnati*
- MCCONAUGHY, FRANCIS B. 2030 Auburn Ave.
A. B., *Harvard University*
- MYERS, WILLIAM M. 3433 Larona Ave.
A. B., *University of Cincinnati*
- O'BRIEN, PAUL A. Springfield, O., and Fenwick Club
A. B., *Wittenberg College*
- O'MEARA, JOSEPH, JR. 2263 Monroe Ave., Norwood, O.
St. Xavier College
- OUTCALT, DUDLEY M. 6222 Ridge Ave.
A. B., *University of Cincinnati*
- PETERS, CRAWFORD A. Aurora, Ind.
- POWERS, EDGAR M. 3505 Burnet Ave.
A. B., *University of Cincinnati*
- SHAFER, FRANK H., JR. 2260 Park Ave.
A. B., *Yale University*
- SMITH, GEORGE P. [ELA] Swanton, O., and 2030 Auburn Ave.
University of Michigan
- WEBSTER, DAN H. 640 High St., Hamilton, O.
Ohio State University
- WELLER, HENRY J. [ELA] 328 Boal St.
University of Cincinnati
- WESTERFIELD, EARL F. 794 Delhi Ave.
A. B., *St. Xavier College*

First Year

- ADLER, SIDNEY F. The Renaissance Bldg.
University of Cincinnati
- ATTIG, DAVID B. 2054 Eastern Ave.
A. E. F.
- BALCH, DEWITT W. 3645 Clifton Ave.
A. B., *Yale University*
- BEARD, STEPHEN S. Grover Hill, O., and 123 Mason St.
Ohio Northern University
- BERGMAN, MAURICE A. Chillicothe, O., and Y. M. C. A.
Ohio State University
- BOESCH, HORACE J. Dayton, O., and Fenwick Club
St. Mary College
- BRAUNSTEIN, MAX H. New Castle, Pa., and Y. M. C. A.
Geneva College
- CLIPPINGER, JOHN H. 4412 Erie Ave.
Western Reserve University
- COHN, HARRY M. 817 Maun Pl.
Brown University
- COOPER, WILLIAM J. B. Dayton, O.
Ohio Wesleyan University
- CUNNINGHAM, JAMES H., JR. [LA] 5922 Kellogg Ave.
University of Cincinnati

DAILEY, JOHN WILLIAM	Milford Centre, O., and L. B. Harrison Hotel A. E. F.
DEMPSEY, EDWARD J.	551 Purcell Ave. Brown University
DILATUSH, CHARLES D.	Lebanon, O., and 2030 Auburn Ave. A. E. F.
DUNIFON, WILLIAM D.	Van Wert, O., and 2030 Auburn Ave. Harvard Radio School
FALE, DAVID L.	539 W. Eighth St. University of Cincinnati
FOWLER, ALBERT C.	Dayton, O., and Y. M. C. A. Shaw Theological Seminary
GARLAND, CARL Z.	Milford, O., and 2030 Auburn Ave. University of Cincinnati
GAYNOR, GUY	Franklin, O., and 2030 Auburn Ave. A. E. F.
GINGHER, PAUL R.	Columbus, O., and Y. M. C. A.
HARMAN, WILLIAM M.	Parsons, W. Va., and Y. M. C. A. Ohio University
HARVEY, WILLIAM [ELA]	734 E. Epworth Ave. University of Cincinnati
JAFFE, LESTER A. [ELA] [G]	818 Hutchins Ave. A. B., University of Cincinnati
JUERGENSE, URBAN R.	Springfield, O. Wittenberg College
KOLTER, ROBERT T.	Wapakoneta, O. Ohio State University
KRICKENBERGER, HERMAN F.	Springfield, O., and L. B. Harrison Hotel University of Cincinnati
METZGER, WALTER	1632 Herbert Ave. A. E. F.
OWEN, BENJAMIN F.	Urbana, O. A. E. F.
PETZOLD, CORNELIUS J. [LA]	2219 McGregor Pl. University of Cincinnati
PHILLIPS, GORDON	Chillicothe, O., and L. B. Harrison Hotel Miami University
PREDMORE, HAROLD	Marathon, O., and 2030 Auburn Ave. Miami University
PUTMAN, ROBERT L.	6 Linden Ave., Ft. Thomas, Ky. University of Kentucky
RAFALO, MAX	1509 Central Ave. University of Cincinnati
RHINE, MRS. LENORE M. [ELA]	5730 Bramble Ave. Miami University
RODERICK, WILLIAM A.	Jackson, O. Ohio Wesleyan University
SIMON, ABRAHAM M.	1303 John St. Ph.D., University of Pennsylvania
STRICKER, LOUIS JULIUS	338 W. Rockdale Ave. University of Cincinnati
TENNENBAUM, ABRAHAM	3548 Bogart Ave. University of Cincinnati
THOMAN, EDITH [LA—D&E]	4051 Rose Hill Ave. University of Cincinnati

- THRALL, RICHARD C. Marysville, O., and Y. M. C. A.
A. E. F.
- WELSH, HAROLD P. Perrysville, O., and Y. M. C. A.
Wooster College
- YARWOOD, CLARE ST. G. 445 Clark St., Bellevue, Ky.
University of Cincinnati

IRREGULAR

- CAREY, RALPH H. Lebanon, O.
Lebanon University.
- DANGLADE, JAMES K. Vevay, Ind., and 17 E. Ninth St.
- GUTTING, THOMAS G. Glendale, O.
A. B., St. Xavier College
- HESS, WILLIAM E. 2447 Fairview Ave.
University of Cincinnati
- HOMER, JAMES L. Galion, O., and 2030 Auburn Ave.

UNIVERSITY OF ILLINOIS LIBRARY

NOV 5 1920

REGISTRATION OF STUDENTS

End of Academic Year 1918-1919

GRADUATE SCHOOL (including 1 duplicate) 89

McMICKEN COLLEGE OF LIBERAL ARTS:

Seniors	79
Juniors	105
Sophomores	146
Freshmen	516
Specials (including 2 duplicates)	74
	— 920
Classes for Teachers	16
Evening Academic Classes (including 97 duplicates) ..	565
	— 1,501

COLLEGE FOR TEACHERS:

Graduates	5
Seniors	41
Juniors	35
Candidates for a Diploma	24
Home Economics (including 11 duplicates) ..	11
Teachers	167
	— 283

COLLEGE OF ENGINEERING AND COMMERCE:

Regular Students:

Seniors	4
Juniors	3
Pre-Juniors	1
Sophomores	10
Freshmen	29
	— 47

Cooperative Students:

Seniors	34
Juniors	42
Pre-Juniors	49
Sophomores	105
Freshmen	310
	— 540
	— 587

COLLEGE OF MEDICINE:

Seniors	29
Juniors	43
Sophomores	48
Freshmen ..	48
Specials	8
	— 176

School of Nursing and Health 168

— 344

COLLEGE OF COMMERCE	184
HOME ECONOMICS	59
COLLEGE OF LAW	70
	<hr/>
GROSS TOTAL (regular departments)	3,117
Twice Counted	111
	<hr/>
NET TOTAL (regular departments)	3,006
AFFILIATED DEPARTMENT:	
Clinical and Pathological School of the Cincinnati	
Hospital	55
Twice Counted	28
	<hr/>
NET TOTAL (affiliated department)	27
Affiliated with the School of Nursing and Health....	112
	<hr/>
	139
	<hr/>
*NET TOTAL (all departments)	3,145

*This does not include the group of auditors in the Extension Courses, numbering 199.

REGISTRATION OF STUDENTS

End of Academic Year, 1919-1920

GRADUATE SCHOOL (including 2 duplicates)..... 162

McMICKEN COLLEGE OF LIBERAL ARTS:

Seniors (including 2 duplicates)	91
Juniors (including 1 duplicate)	112
Sophomores	193
Freshmen	306
Irregulars	15
Specials (including 3 duplicates)	100
	— 817
Unclassified ..	40
Evening (including 168 duplicates)	744
	— 1,601

COLLEGE FOR TEACHERS:

Fifth-Year (including 11 duplicates)	26
Seniors	34
Juniors	25
Sophomores	27
Freshmen	29
Specials	15
Teachers	128
	— 284

COLLEGE OF ENGINEERING AND COMMERCE:

Regular Students:

Seniors	3
Juniors	5
Sophomores	4
Freshmen	13
Specials	3
	— 28

Cooperative Students:

Fifth-Year ..	44
Fourth-Year ..	72
Third-Year ..	113
Second-Year ..	169
First-Year ..	383
Specials	12
	— 793

Commerce Students:

Regulars ..	19
Evening (including 7 duplicates)	297
	— 316
	— 1,137

COLLEGE OF MEDICINE:

Graduates	3	
Seniors	45	
Juniors	62	
Sophomores	42	
Freshmen	72	
Specials (including 1 duplicate)	14	
	<hr/>	238
<i>School of Nursing and Health</i>		120
		<hr/>
		358

COLLEGE OF LAW:

Third-Year	15	
Second-Year	26	
First-Year	42	
Irregulars	55	
	<hr/>	88

GROSS TOTAL	3,630
Twice Counted	195
	<hr/>
NET TOTAL (regular departments)	3,435

AFFILIATED DEPARTMENT:

Clinical and Pathological School of the Cincinnati		
Hospital	.....	77
Twice Counted	.....	44
		<hr/>
NET TOTAL (affiliated department)	.....	33
Affiliated with the School of Nursing and Health	..	97
		<hr/>
		130
		<hr/>
NET TOTAL (all departments)	3,565

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